



Atlantic Richfield Company  
(a BP affiliated company)



P.O. Box 6549  
Moraga, California 94570  
Phone: (925) 299-8891  
Fax: (925) 299-8872

December 16, 2005

Re: ARCO Service Station # 2121  
43 South Abbott Avenue  
Milpitas, CA  
Well Destruction Report

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supply  
Environmental Business Manager



December 16, 2005

Mr. Mamerto Jorvina  
Santa Clara County Department of Environmental Health  
1555 Berger Drive, Suite 300  
San Jose, CA 95112-2716

**Re: Well Destruction Report  
ARCO Service Station #2121  
43 South Abbott Avenue  
Milpitas, California  
SCVWD ID No.: 06S1W12H02f**

Dear Mr. Jorvina:

At the request of Remediation Management (RM - a BP affiliated company), URS Corporation (URS) has prepared this *Well Destruction Report* for the ARCO Service Station #2121 located at 43 South Abbott Avenue in Milpitas, California (the Site, Figure 1). The scope of work consisted of destroying the remaining five on-Site groundwater monitoring wells (MW-1 and MW-3 through MW-6) for RM. Currently, no groundwater monitoring wells associated with the Site remain on-Site. Monitoring well MW-2 located at the Site will be re-assigned to BP station #11223 located at 97 South Abbott Avenue in Milpitas, California. The well locations are shown on Figure 1.

#### **SITE DESCRIPTION**

The Site is located at 43 South Abbott Avenue, Milpitas, California. Currently, the site operates as a retail ARCO gasoline service station. The Site is bound by Valley Way to the south, South Abbott Avenue to the east, and commercial buildings to the north and west. The majority of the property is concrete and asphalt paved. Current site structures include three double-walled fiberglass gasoline underground storage tanks (USTs), two pump islands with a total of eight dispensers, a SmogPros auto repair center, and a convenience store. The existing Site layout is shown on Figure 1. The Site received case closure from the Santa Clara County Department of Environmental Health (CSCDEH) on February 22, 2005.

#### **Well Destruction Activities**

URS personnel supervised a California licensed-driller destroy groundwater monitoring wells MW-1 and MW-3 through MW-6 by pressure grouting the well casing. Well destruction activity details are presented below.

#### ***Personnel Present:***

URS Geologists John McCain (California Professional Geologist No. 8020) and Kirk Martin.

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
Fax: 510.874.3268

Mr. Mamerto Jorvina  
Page 2 of 2  
December 16, 2005

**Permits:** Santa Clara Valley Water District (SCVWD) Permit # 05D00636 (MW-1), 05D00637 (MW-3), 05D00638 (MW-4), 05D00639 (MW-5), and 05D00640 (MW-6).

**Drilling Company:** Gregg Drilling of Martinez, California (C-57 License # 485165).

**Drilling Date:** October 21, 2005.

**Number of Wells:** Five monitoring wells (MW-1 and MW-3, MW-4, MW-5, and MW-6).

**Destruction Method:** Wells were pressure grouted using a neat cement mixture according to SCVWD well destruction guidelines.

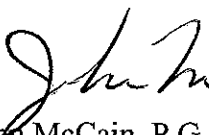
**Boring Depth:** Five wells were pressure grouted from the bottom to the ground surface using a Tremie pipe applying 25 pound per square inch of pressure for five minutes each. Copies of the Department of Water Resources (DWR) well completion reports are included in Attachment B.

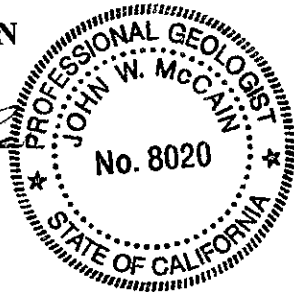
**Soil and Water Handling:** There were no soil cuttings or rinsate water produced during the destruction activities.

We appreciate the opportunity to present this *Well Destruction Report* to the CSCDEH on behalf of RM and trust that this document meets with your approval. Please do not hesitate to contact us at (510) 893-3600 with any questions or comments.

Sincerely,

URS CORPORATION

  
John McCain, P.G.  
Project Manager

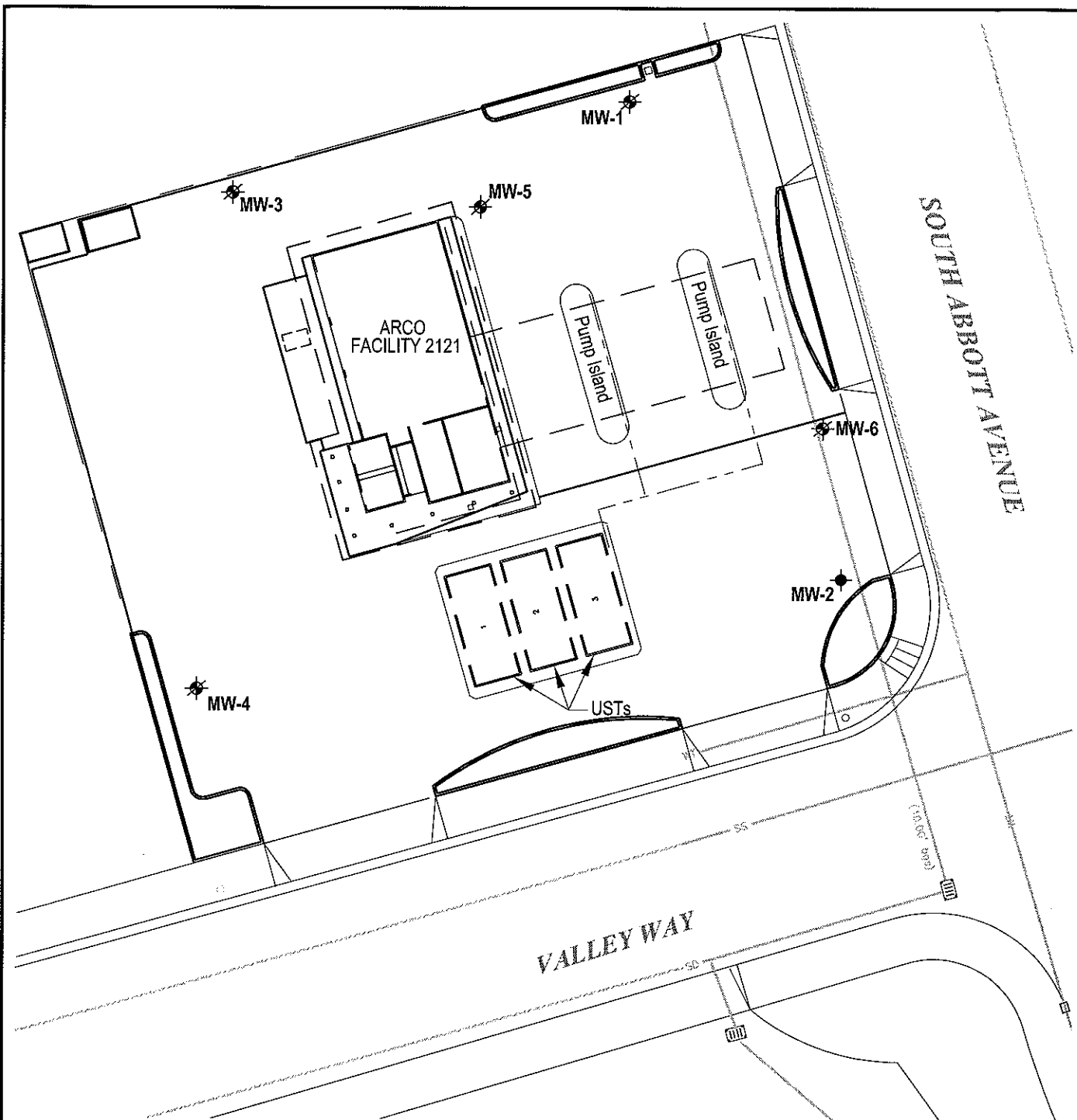


Attachments:

Figure 1	Site Map
Table 1	Well Construction and Destruction Details
Attachment A	SCVWD Well Destruction Permits
Attachment B	DWR Well Completion Reports (original copy submitted to SCVWD Wells Division)

cc: Mr. Paul Supple, RM (electronic copy uploaded to ENFOS)

Dec 12, 2005 - 10:34am  
 X:\c\_env\waste\BP GEN\Sites\Lynelle Onishi - SCFWD ARCO Sites\Paul Supple\2121 - closed\Reports\Swi-3\Drawings\MW-SBLM\_12-9.dwg



#### EXPLANATION

- |     |  |    |                |
|-----|--|----|----------------|
| ◆   | MW-2 to be re-assigned to BP#11223 (97 South Abbott Ave., Milpitas, Ca.) | SD | Storm drain    |
| ✱   | Destroyed monitoring well  | SS | Sanitary sewer |
| ⌬   | Storm drain inlet  | W  | Water line     |
| □   | Vault box  |    |                |
| --- | Product line piping  |    |                |

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL AND TAIT & ASSOCIATES FIGURES.  
 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



NORTH

0 15 30 60

Scale (ft)

**URS**

Project No. 38487378  
 ARCO Service Station #2121  
 43 South Abbott Avenue  
 Milpitas, California

**SITE MAP**

FIGURE

**1**

## Summary of Well Construction and Destruction Details

ARCO Station #2121  
43 S. Abbott Ave, Milpitas, CA  
Well Destruction Details

Well ID	Well Type	Well Diameter (inches)	Screened Interval (feet bgs)	Depth to Bottom of Boring (feet bgs)	Well Destruction Method
MW-1	Monitoring	4	4.5 - 19.5	20.00	Pressure Grout
MW-2	Monitoring	4	4 - 19	20.00	Not Destroyed <sup>1</sup>
MW-3	Monitoring	4	4 - 19	20.00	Pressure Grout
MW-4	Monitoring	4	4 - 19	19.00	Pressure Grout
MW-5	Monitoring	2	5 - 20	20.00	Pressure Grout
MW-6	Monitoring	2	5 - 20	20.00	Pressure Grout

Notes:

bgs = Below ground surface

<sup>1</sup> = Well MW-2 remains at Site and will be re-assigned to BP # 11223, 97 South Abbott Avenue, Milpitas, CA

**Attachment A**  
SCVWD Well Destruction Permits

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00636

Well Owner: Atlantic Richfield Company	Property Owner: Atlantic Richfield Company	Name of Business/Residence at Well Site: ARCO Service Station # 2121
Well Owner's Mailing Address: P.O. Box 6549	Property Owner's Mailing Address: P.O. Box 6549	Address of Well Site: 43 S. Abbott Ave.
City, State, Zip: Moraga, CA 94570	City, State, Zip: Moraga, CA 94570	City, State, Zip: Milpitas, CA
Telephone No.: 925-299-8891	Telephone No.: 925-299-8891	Assessor's Parcel Number of Well Site: Book: 22 Page: 28 Parcel: 011
Consultant: URS Corporation	Drilling Company: Gregg Drilling	
Address: 1333 Broadway, Suite 800	Address: 950 Howe Road	
City, State, Zip: Oakland, CA 94612	City, State, Zip: Martinez, CA 94553	
Telephone No.: 510-874-3026 Attn: John McCain	Telephone No.: 925-313-5800	C-57 License No.: 485165
<input type="checkbox"/> Check if address or phone number has changed.	<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

Well Information

Well Registration No.: 06S01612H012	Owner/Consultant Well No.: MW-1	Original Well Construction Permit No.: 03W00546
Well Casing Depth: 19.5'	Total Boring Depth: 20'	Well Casing Diameter: 4"

THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

Well Description:

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Well ☐ Pit Well

Well Type: check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☐ Vapor Extraction

☒ Monitoring ☐ Inclinator ☒ Groundwater ☐ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☐ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

Additional Questions For Water Producing Wells

Does the well have:

1. Outer conductor casing? ☐ Yes ☒ No

2. Annular cement seal outside of casing at surface? ☐ Yes ☒ No

3. A S.C.V.W.D. water meter attached? ☐ Yes ☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☒ Hollow Stem Auger ☐ Other:

IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

SEP 8 2005

S.C.V.W.D.

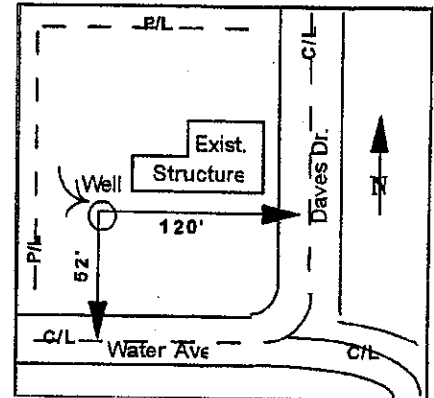
Site Plan

WELL LOCATION

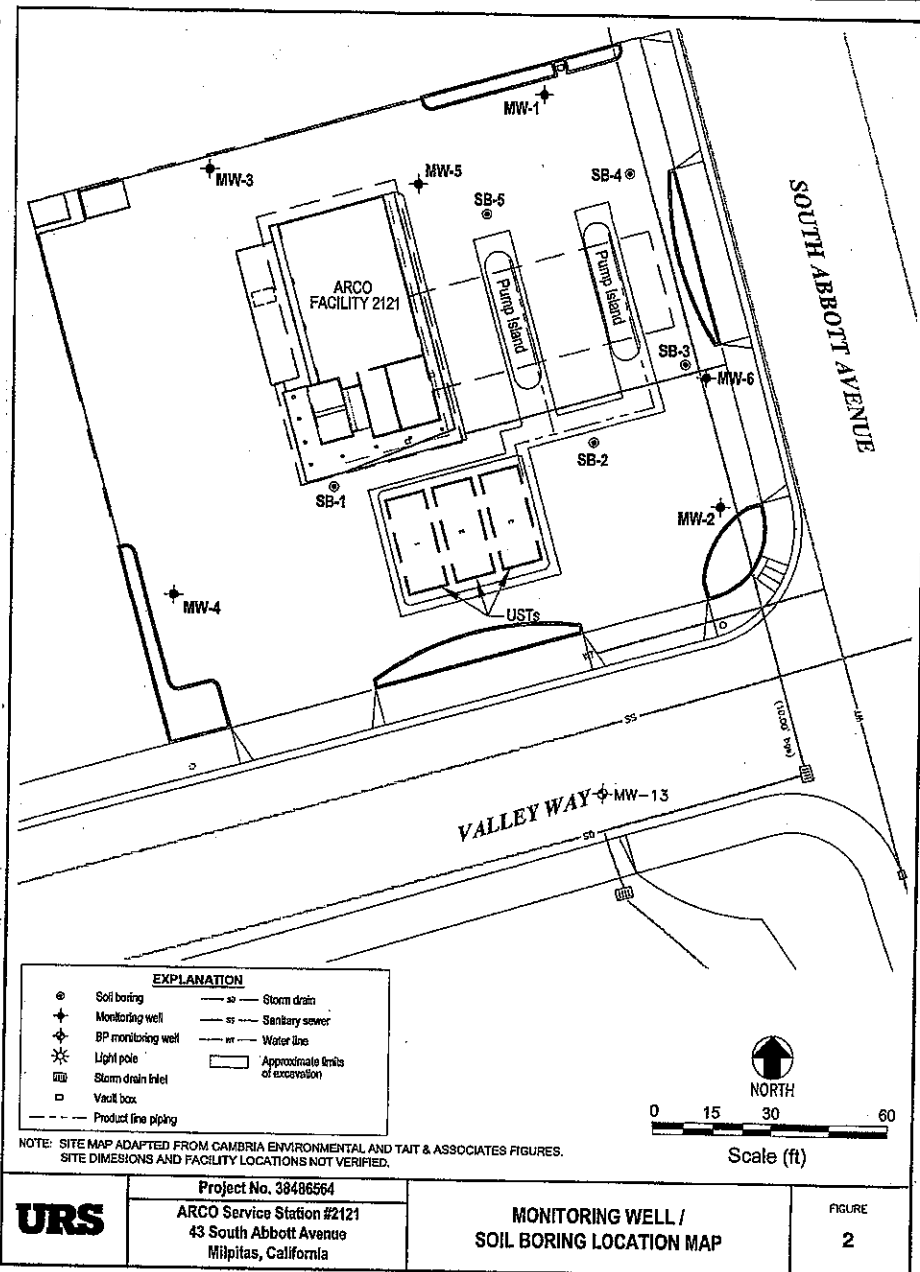
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



Sketch well location







Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\*Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Andrew Fowler/URS for Atlantic Richfield Co	Date: 9/6/05
Signature of Driller/Agent: 	Print Name: Andrew Fowler/URS for Gregg Drilling	Date: 9/6/05
Signature of Consultant (if any): 	Print Name: Andrew Fowler/URS	Date: 9/6/05

## DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 20 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling:

☐ Other: Less than 5' seal.

H2O @ 11'

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00636	Date Issued: 9-23-05	Expiration Date: 3-23-06	Driller's Log No.: 030205

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. If the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.



500 12th Street, Suite 200  
Oakland, California 94607

## MONITORING WELL LOG

Well ID: MW-1

Total Depth: 19.5 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project:	ARCO #2121 Monitoring Well Installation	Drilling Company:	Gregg Drilling
Site Location:	43 South Abbott Ave, Milpitas, CA	Driller:	Trevor Joyner
Site Number:	#2121	Type of Drilling Rig:	Hollow Stem Auger
Project Manager:	Keith Woodburne	Drilling Method:	10" OD/6" ID HSA
Geologist:	Joe Gonzales	Sampling Method:	California Split Spoon
Job/Cost Code Number:	38486491.0L006	Date(s) Drilled:	9/5/03
WELL INFORMATION			
Groundwater Depth (ft bgs):	11 feet bgs	Well Location:	35 feet north of pump islands
Top of Casing Elevation (ft msl):	NA	Well Diameter:	4 inches
Coordinates: Latitude	NA	Longitude	NA
		Screened Interval:	From 4.5 to 19.5

Depth (ft)	Symbol	Lithologic Description	Blow Counts	USCS	PID	Recovery	Sample ID and Interval	Well Completion	Well Description/ Comments
0		ASPHALT: Cleared to 5 feet bgs							Flush mounted well box installed
2		SILTY CLAY: brownish gray, well sorted		CL					Cement grout from 0 to 2.5 feet bgs
4									Bentonite annular seal from 2.5 to 3.5 feet bgs
6		brownish gray, 80% clay, 20% silt, well sorted, stiff, damp, moderate plasticity, low estimated permeability, odor, silt increases with depth.	4 9 11		278		MW-1-6		2/12 sand filter pack from 3.5 to 19.5 feet bgs
8									
10		grayish brown, 70% clay, 30% silt, well sorted, stiff, damp, moderate plasticity, low estimated permeability, slight odor.	6 12 17		2.0		MW-1-10		Screened interval (0.010" screen slot size) from 4.5 to 19.5 feet bgs
12									
14									
16		brown, 70% clay, 30% silt, trace sand, well sorted, stiff, moist, moderate plasticity, low estimated permeability, slight odor.	5 6 7		0.4				
18									
20		brownish gray, 70% clay, 30% silt, trace sand, well sorted, stiff, wet, moderate plasticity, low estimated permeability, has small lenses of siltier material.	3 4 4		0				

01 \*Permit# 03W00546 C 02 Type W Construction 03 Issue Dt 08/22/2003  
04 \*Well# 06S01W12H012 A 05 Ownr/Cnslt# MW-1 06 Expir Dt 02/22/2004

PERMIT COMPLETION NOTICE

WR053QKC

ACTION:

CONSTRUCTION		DESTRUCTION	
*Drill Method		*Destruction Method	
01 <u>06 Hollow Stem Auger</u>		03 _____	
Depth of Surface Annular Seal		Casing Perforated From	To
02 <u>4.50</u>		04 _____ 0 _____ 0	
		*Sealer Material	
		05 _____	

06 Inspection Date 09/05/2003 Name WILLIAM CAMERON

07 Inspection \_\_\_\_\_

Comments \_\_\_\_\_

08 Inspection Completed? Y According to Provisions of SCVWD? Y

P. VELASQUEZ (PV ) PERMITS.DIVWRIS

Enter field number you want to change or press F1 to Enter All Fields

MODE:F ACTION:  
WR054QKC

WATER RESOURCES INFORMATION SYSTEM  
DRILLER LOGS MAINTENANCE (PERMIT)

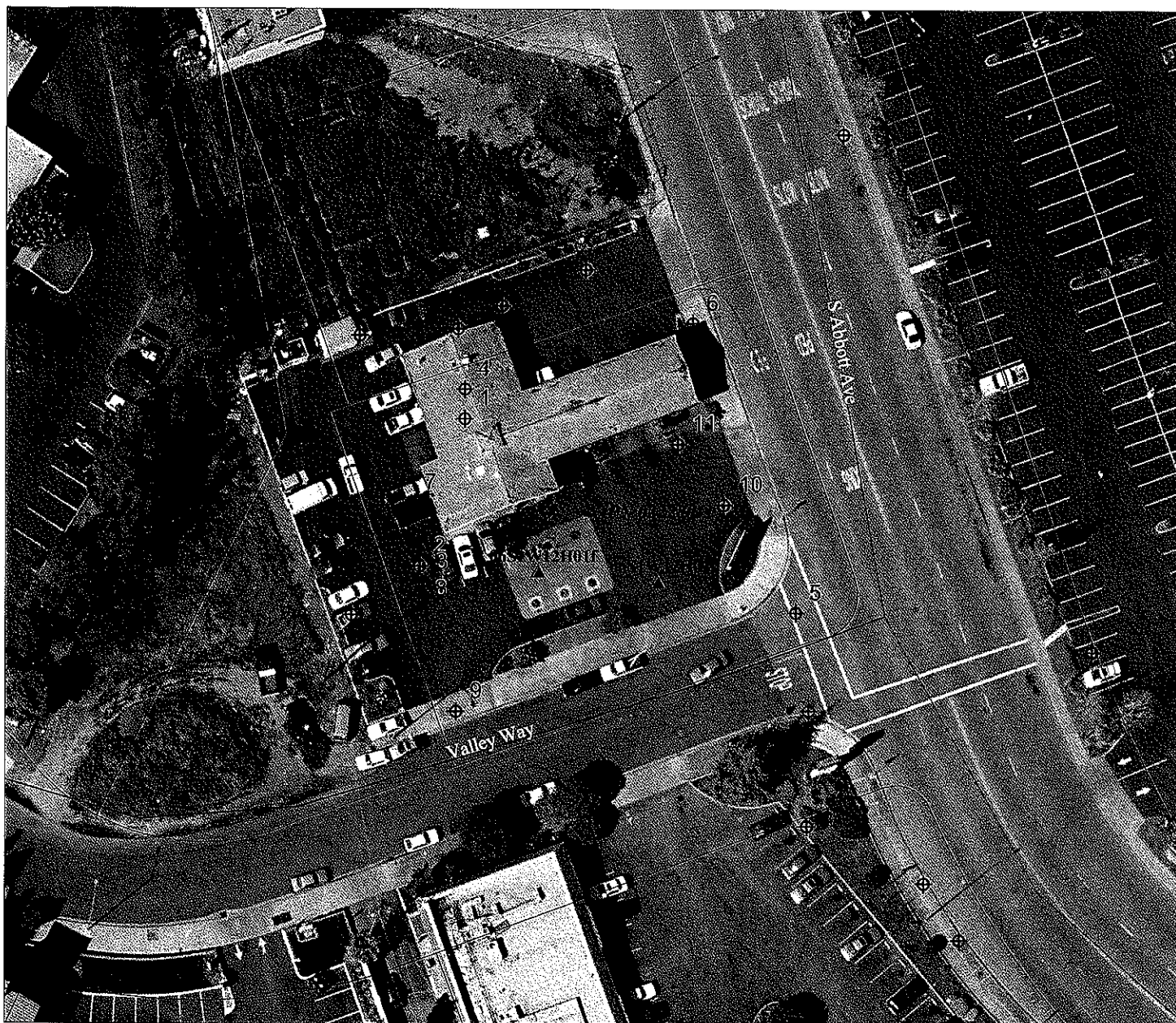
09/14/2005  
08:08 AM

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01 DWR#	<u>791726</u>	Permit#	<u>03W00546</u>	Well#	<u>06S01W12H012</u>	Ownr/Cnslt#	<u>MW-1</u>
Permit Dt	<u>08/22/2003</u>	Well Owner ID	<u>00010323</u>	APN	<u>022-28-011</u>	<u>Milpitas</u>	
02 Work Begin	<u>09/05/2003</u>	ARCO PRODUCTS CO		05 Ground Level	<u>17.00</u>		
03 Work End	<u>09/05/2003</u>	P O BOX 6549		*Source			
04 Received	<u>09/24/2003</u>	MORAGA	<u>CA 94570</u>				
				Well/Device Type 1			
06 Tot Bore Dpth	<u>19.50</u>	Well Desc	<u>08 Well</u>	03 Monitor			
07 Tot Well Dpth	<u>19.50</u>	10 *Orientation	<u>V Vertical</u>	01 Groundwater			
08 Depth 1st Wtr	<u>11.00</u>	11 *Drill Method	<u>06 Hollow Stem</u>				
09 San Seal Dpth	<u>3.50</u>	12 Drill Fluid					
				Well/Device Type 2			
13 Depth Static Water Lev1	<u>0.00</u>	*Attachments					
14 Date Measured		19					
15 Estimated Yield (GPM)	<u>0</u>	20					
16 *Test Type		21					
17 Test Length (Hrs)	<u>0.00</u>	22					
18 Total Drawdown	<u>0.00</u>	23					

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P. VELASQUEZ (PV ) PERMITS.DIVWRIS



APN: 02228011  
43 S Abbott Ave  
Milpitas CA  
95035

Well Annotations- 11 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	06S01W12H001	86W0255	A21217B	Other-Active	6151000	1981382
2	06S01W12H002	87W0641	M13	Other-Active	6150984	1981328
3	06S01W12H003	89D0257	M 8	Destroyed	6150984	1981322
4	06S01W12H004	96D01042	MW 9	Destroyed	6151000	1981393
5	06S01W12H006	96D01035	MW-1	Destroyed	6151122	1981311
6	06S01W12H007	96D01036	MW-2	Destroyed	6151084	1981417
7	06S01W12H008	96D01037	MW-3	Destroyed	6150980	1981351
8	06S01W12H009	96D01038	MW-4	Destroyed	6150984	1981312
9	06S01W12H010	96D01039	MW-5	Destroyed	6150997	1981275
10	06S01W12H013	03W00547	MW-2	Other-Active	6151096	1981351
11	06S01W12H019	04W00376	MW-6	Other-Active	6151079	1981373

Wells.shp

- ⊕ Water Supply - Active
- ⊞ Water Supply - Standby
- Water Supply - Inactive
- ⊕ Extraction (Env) - Active
- ⊞ Extraction (Env) - Inactive
- ⊕ Other - Active
- Other - Inactive
- \* Abandoned
- ⊕ Destroyed
- ▲ Status Undetermined

Parcels.shp  
VALFLOOR.SHP

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

Approximate Scale

30 0 30 60 Feet

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00637

Well Owner: Atlantic Richfield Company	Property Owner: Atlantic Richfield Company	Name of Business/Residence at Well Site: ARCO Service Station # 2121
Well Owner's Mailing Address: P.O. Box 6549	Property Owner's Mailing Address: P.O. Box 6549	Address of Well Site: 43 S. Abbott Ave
City, State, Zip: Moraga, CA 94570	City, State, Zip: Moraga, CA 94570	City, State, Zip: Milpitas, CA
Telephone No.: 925-299-8891	Telephone No.: 925-299-8891	Assessor's Parcel Number of Well Site: Book: 22 Page: 28 Parcel: 011
Consultant: URS Corporation	Drilling Company: Gregg Drilling	
Address: 1333 Broadway, Suite 800	Address: 950 Howe Road	
City, State, Zip: Oakland, CA 94612	City, State, Zip: Martinez, CA 94553	
Telephone No.: 510-874-3026 Attn: John McCain	Telephone No.: 925-313-5800	C-57 License No.: 485165
<input type="checkbox"/> Check if address or phone number has changed.	<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

## Well Information

Well Registration No.: 06S01W12H014	Owner/Consultant Well No.: MW-3	Original Well Construction Permit No.: 03600548
Well Casing Depth: 19'	Total Boring Depth: 20'	Well Casing Diameter: 4"

THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

<input type="checkbox"/> Well on SCVWD property/easement*	<input type="checkbox"/> Well is within 50 feet of the top of a creek/river bank*	(* See General Conditions, E.)
Well Description:		
<input checked="" type="checkbox"/> Vertical Well	<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Elevator Shaft
<input type="checkbox"/> Multiple Casing	<input type="checkbox"/> Horizontal Well	<input type="checkbox"/> Pit Well
Well Type: check all that apply		
<input type="checkbox"/> Water Producing (supply or extraction)	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal & Industrial	<input type="checkbox"/> Vapor Extraction
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Inclinator	<input checked="" type="checkbox"/> Groundwater
<input type="checkbox"/> Vadose	<input type="checkbox"/> Piezometer	<input type="checkbox"/> Interface
<input type="checkbox"/> Suction Lysimeter	<input type="checkbox"/> Seismic	
<input type="checkbox"/> Injection/Infiltration	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Reclaimed Water
<input type="checkbox"/> Air Sparging		
<input type="checkbox"/> Cathodic Protection		

## Additional Questions For Water Producing Wells

Does the well have:	1. Outer conductor casing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	2. Annular cement seal outside of casing at surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	3. A S.C.V.W.D. water meter attached?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Type of Original Drilling Method:			
<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable-Tool	<input type="checkbox"/> Hand Dug Pit Well	<input checked="" type="checkbox"/> Hollow Stem Auger
<input type="checkbox"/> Other:			

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

SEP - 8 2005

S.C.V.W.D.  
WELLS

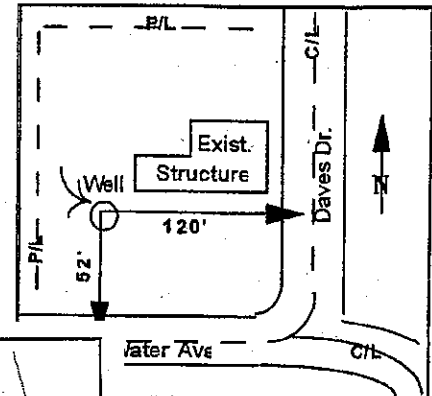
Site Plan

WELL LOCATION

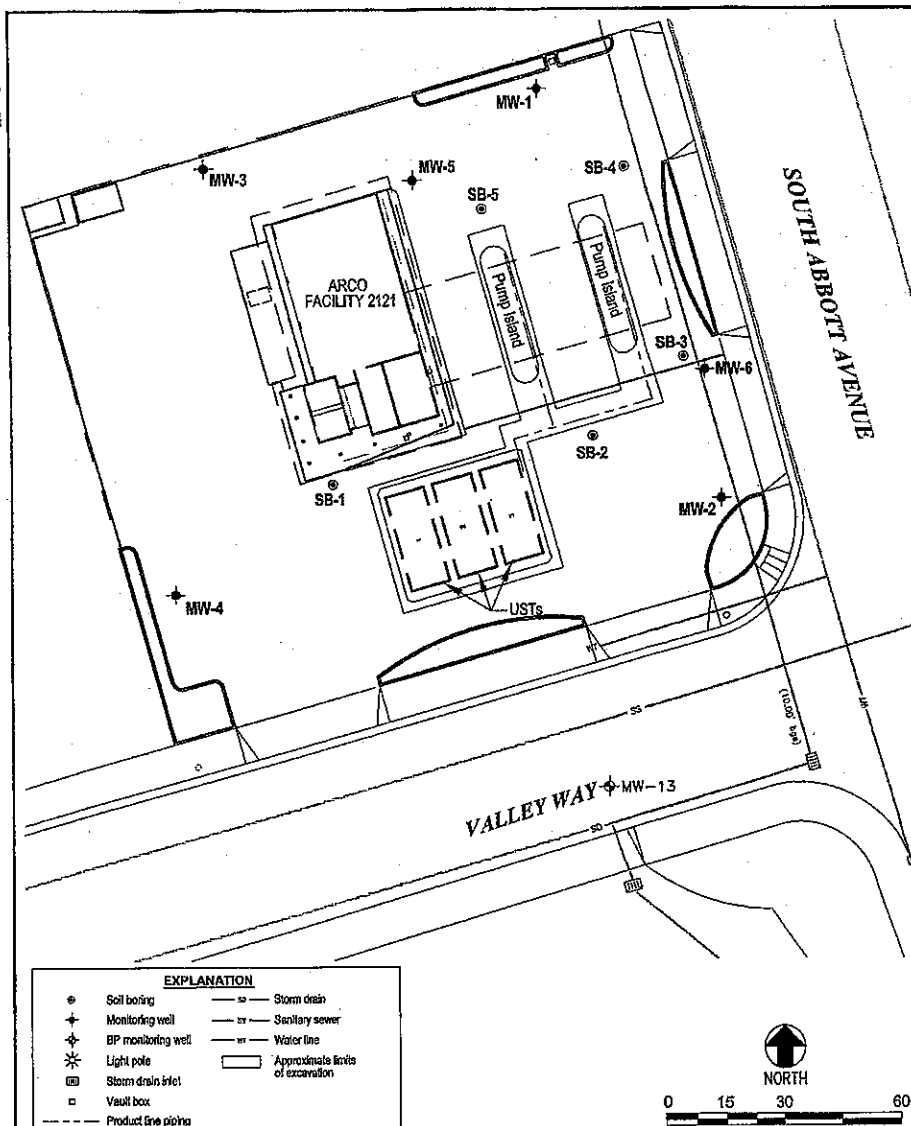
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



Sketch well loc



NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL AND TAIT & ASSOCIATES FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS

Project No. 38486564  
ARCO Service Station #2121  
43 South Abbott Avenue  
Milpitas, California

MONITORING WELL /  
SOIL BORING LOCATION MAP

FIGURE  
2

Please allow 10 working days to process this application.





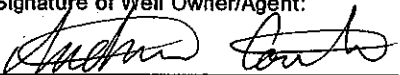

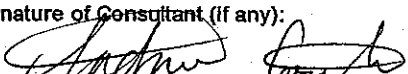
Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Andrew Fowler / URS for Atlantic Richfield Co	Date: 9/6/05
Signature of Driller/Agent: 	Print Name: Andrew Fowler / URS for Gregg Drilling	Date: 9/6/05
Signature of Consultant (if any): 	Print Name: Andrew Fowler URS	Date: 9/6/05

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).


NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 20 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00637	Date Issued: 9-23-05	Expiration Date: 3-23-06	Driller's Log No.: 030206

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.

01 \*Permit# 03W00548 C 02 Type W Construction 03 Issue Dt 08/22/2003  
04 \*Well# 06S01W12H014 A 05 Ownr/Cnslt# MW-3 06 Expir Dt 02/22/2004

PERMIT COMPLETION NOTICE

WR053QKC

ACTION:

CONSTRUCTION		DESTRUCTION	
*Drill Method		*Destruction Method	
01 <u>06 Hollow Stem Auger</u>		03 _____	
Depth of Surface Annular Seal		Casing Perforated From	To
02 <u>3.00</u>		04 _____	0 _____
		*Sealer Material	
		05 _____	

06 Inspection Date 09/05/2003 Name WILLIAM CAMERON

07 Inspection \_\_\_\_\_

Comments \_\_\_\_\_

08 Inspection Completed? Y According to Provisions of SCVWD? Y

P. VELASQUEZ (PV ) PERMITS.DIVWRIS

Enter field number you want to change or press F1 to Enter All Fields



500 12th Street, Suite 200  
Oakland, California 94607

## MONITORING WELL LOG

Well ID: MW-3

Total Depth: 19 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project:	ARCO #2121 Monitoring Well Installation	Drilling Company:	Gregg Drilling
Site Location:	43 South Abbott Ave, Milpitas, CA	Driller:	Don Kirsnis
Site Number:	#2121	Type of Drilling Rig:	Hollow Stem Auger
Project Manager:	Keith Woodburne	Drilling Method:	10" OD/6" ID HSA
Geologist:	Joe Gonzales	Sampling Method:	California Split Spoon
Job/Cost Code Number:	38486491.0L006	Date(s) Drilled:	9/5/03
WELL INFORMATION			
Groundwater Depth (ft bgs): 12 feet bgs		Well Location: 20 feet Northwest of station building	
Top of Casing Elevation (ft msl): NA		Well Diameter: 4 inches	
Coordinates: Latitude NA Longitude NA		Screened Interval: From 4 to 19 feet bgs	

Depth (ft)	Symbol	Lithologic Description	Blow Counts	USCS	PID	Recovery	Sample ID and Interval	Well Completion	Well Description/ Comments
0		ASPHALT							Flush mounted well box installed
2		CLAYEY SILT: grayish brown, well sorted, trace sand		ML					Cement grout from 0 to 2 feet bgs
4									Bentonite annular seal from 2 to 3 feet bgs
6		grayish brown, 35% clay, 65% silt, trace sand, well sorted, stiff, damp, low plasticity, moderately low estimated permeability.	9 17 22		0		MW-2-5		2/12 sand filter pack from 3 to 19 feet bgs
8			7 9 11		0		MW-2-10		
10		grayish brown, 40% clay, 65% silt, trace sand, well sorted, stiff, damp, low plasticity, moderately low estimated permeability.							Screened interval (0.010" screen slot size) from 4 to 19 feet bgs
12									
14		SILTY CLAY: brown, 75% clay, 25% silt, trace sand, well sorted, moderately stiff, wet, moderate plasticity, low estimated permeability.	6 7 9	CL	0				
16									
18									
20		Same as above	26 17 13		0				

MODE:F ACTION:  
WR054QKC

WATER RESOURCES INFORMATION SYSTEM  
DRILLER LOGS MAINTENANCE (PERMIT)

09/14/2005  
08:09 AM

01 DWR#	<u>791728</u>	Permit#	<u>03W00548</u>	Well#	<u>06S01W12H014</u>	Ownr/Cnslt#	<u>MW-3</u>
Permit Dt	<u>08/22/2003</u>	Well Owner ID	<u>00010323</u>	APN	<u>022-28-011</u>	<u>Milpitas</u>	
02 Work Begin	<u>09/05/2003</u>	ARCO PRODUCTS CO		05 Ground Level	<u>17.00</u>		
03 Work End	<u>09/05/2003</u>	P O BOX 6549		*Source			
04 Received	<u>09/24/2003</u>	MORAGA	<u>CA 94570</u>				
				Well/Device Type 1			
06 Tot Bore Dpth	<u>19.00</u>	Well Desc	<u>08 Well</u>	<u>03 Monitor</u>			
07 Tot Well Dpth	<u>19.00</u>	10 *Orientation	<u>V Vertical</u>	<u>01 Groundwater</u>			
08 Depth 1st Wtr	<u>12.00</u>	11 *Drill Method	<u>06 Hollow Stem</u>				
09 San Seal Dpth	<u>3.00</u>	12 Drill Fluid					
				Well/Device Type 2			
13 Depth Static Water Lev	<u>0.00</u>	*Attachments					
14 Date Measured		19					
15 Estimated Yield (GPM)	<u>0</u>	20					
16 *Test Type		21					
17 Test Length (Hrs)	<u>0.00</u>	22					
18 Total Drawdown	<u>0.00</u>	23					

P. VELASQUEZ (PV ) PERMITS.DIVWRIS



APN: 02228011  
43 S Abbott Ave  
Milpitas CA  
95035

Well Annotations- 11 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	06S01W12H001	86W0255	A21217B	Other-Active	6151000	1981382
2	06S01W12H002	87W0641	M13	Other-Active	6150984	1981328
3	06S01W12H003	89D0257	M 8	Destroyed	6150984	1981322
4	06S01W12H004	96D01042	MW 9	Destroyed	6151000	1981393
5	06S01W12H006	96D01035	MW-1	Destroyed	6151122	1981311
6	06S01W12H007	96D01036	MW-2	Destroyed	6151084	1981417
7	06S01W12H008	96D01037	MW-3	Destroyed	6150980	1981351
8	06S01W12H009	96D01038	MW-4	Destroyed	6150984	1981312
9	06S01W12H010	96D01039	MW-5	Destroyed	6150997	1981275
10	06S01W12H013	03W00547	MW-2	Other-Active	6151096	1981351
11	06S01W12H019	04W00376	MW-6	Other-Active	6151079	1981373

Wells.shp

- ⊕ Water Supply - Active
- ⊞ Water Supply - Standby
- Water Supply - Inactive
- ⊕ Extraction (Env) - Active
- Extraction (Env) - Inactive
- ⊕ Other - Active
- Other - Inactive
- \* Abandoned
- ⊕ Destroyed
- ▲ Status Undetermined

Parcels.shp  
VALFLOOR.SHP

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

Approximate Scale

30 0 30 60 Feet

**5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686**

Please complete all information.

DISTRICT PERMIT NO.:

05700638

<b>Well Owner:</b> Atlantic Richfield Company	<b>Property Owner:</b> Atlantic Richfield Company	<b>Name of Business/Residence at Well Site:</b> ARCO Service Station # 2121	
<b>Well Owner's Mailing Address:</b> P.O. Box 6549	<b>Property Owner's Mailing Address:</b> P.O. Box 6549	<b>Address of Well Site:</b> 43.5. Abbott Ave	
<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Moraga, CA 94570	<b>City, State, Zip:</b> Milpitas, CA	
<b>Telephone No.:</b> 925-299-8891	<b>Telephone No.:</b> 925-299-8891	<b>Assessor's Parcel Number of Well Site:</b> Book: 22 Page: 28 Parcel: 011	
<b>Consultant:</b> URS Corporation		<b>Drilling Company:</b> Gregg Drilling	
<b>Address:</b> 1333 Broadway, Suite 800		<b>Address:</b> 950 Howe Road	
<b>City, State, Zip:</b> Oakland, CA 94612		<b>City, State, Zip:</b> Martinez, CA 94553	
<b>Telephone No.:</b> 510-874-3026 Attn: John McCain		<b>Telephone No.:</b> 925-313-5800	<b>C-57 License No.:</b> 485165
<input type="checkbox"/> Check if address or phone number has changed.		<input type="checkbox"/> Check if address or phone number has changed.	

**All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

**Well Information**

<b>Well Registration No.:</b> <u>06501W12H015</u>	<b>Owner/Consultant Well No.:</b> <u>MW-4</u>	<b>Original Well Construction Permit No.:</b> <u>03W00549</u>
<b>Well Casing Depth:</b> <u>19'</u>	<b>Total Boring Depth:</b> <u>19'</u>	<b>Well Casing Diameter:</b> <u>4"</u>

**THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS**

**CASE NAME:** ARCO Service Station

**Oversight Agency:** Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

**Well Description:**

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Well ☐ Pit Well

**Well Type:** check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☐ Vapor Extraction

☒ Monitoring ☐ Inclinator ☒ Groundwater ☐ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☐ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

**Additional Questions For Water Producing Wells**

Does the well have:

- Outer conductor casing? ☐ Yes ☒ No
- Annular cement seal outside of casing at surface? ☐ Yes ☒ No
- A S.C.V.W.D. water meter attached? ☐ Yes ☒ No

**Type of Original Drilling Method:**

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☒ Hollow Stem Auger ☐ Other:

**IMPORTANT**

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

SEP - 8 2005

**S.C.V.W.D.**  
WELLS



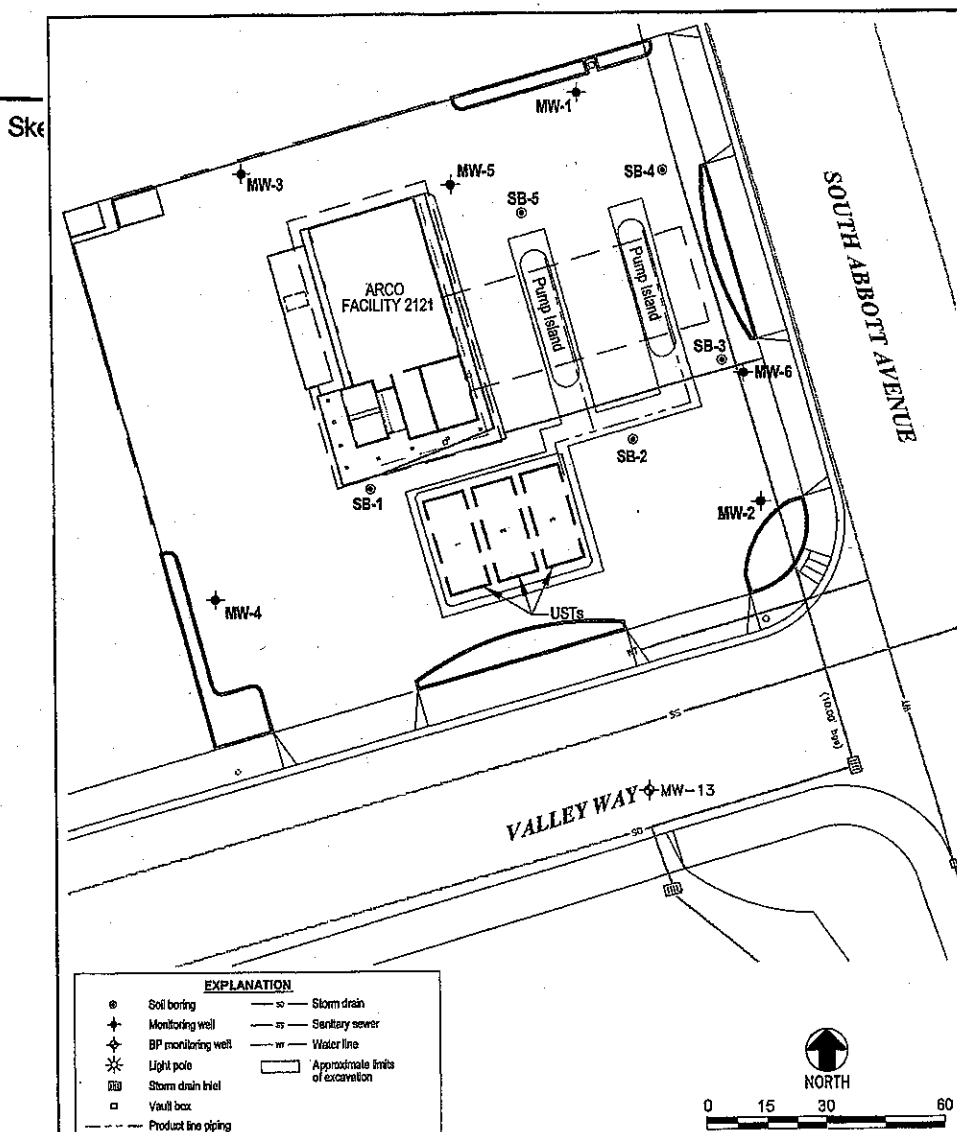
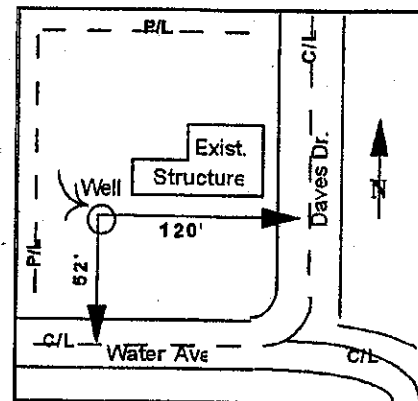
## Site Plan

### WELL LOCATION

(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL AND TAIT & ASSOCIATES FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

**URS**

Project No. 38486584  
ARCO Service Station #2121  
43 South Abbott Avenue  
Milpitas, California

MONITORING WELL /  
SOIL BORING LOCATION MAP

FIGURE  
2

Please allow 10 working days to process this application.








Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Andrew Fowler / URS for Atlantic Richfield Co	Date: 9/6/05
Signature of Driller/Agent: 	Print Name: Andrew Fowler / URS for Gregg Drilling	Date: 9/6/05
Signature of Consultant (if any): 	Print Name: Andrew Fowler URS	Date: 9/6/05

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).

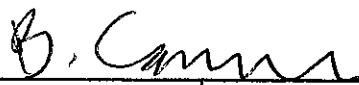
OR NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 19 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00638	Date Issued: 9-23-05	Expiration Date: 3-23-06	Driller's Log No.: 030207

Please allow 10 working days to process this application.



**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.



500 12th Street, Suite 200  
Oakland, California 94607

## MONITORING WELL LOG

Well ID: MW-4

Total Depth: 19 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project: ARCO #2121 Monitoring Well Installation		Drilling Company: Gregg Drilling	
Site Location: 43 South Abbott Ave, Milpitas, CA		Driller: Bobby Deason	
Site Number: #2121		Type of Drilling Rig: Rhino Rig	
Project Manager: Keith Woodburne		Drilling Method: 10" OD/6" ID HSA	
Geologist: Joe Gonzales		Sampling Method: California Split Spoon	
Job/Cost Code Number: 38486491.0L006		Date(s) Drilled: 9/10/03	
WELL INFORMATION			
Groundwater Depth (ft bgs): 13 feet bgs		Well Location: 55 feet east of tank pit	
Top of Casing Elevation (ft msl): NA		Well Diameter: 4 inches	
Coordinates: Latitude NA                      Longitude NA		Screened interval: From 4 to 19 feet bgs	

Depth (ft)	Symbol	Lithologic Description	Blow Counts	USCS	PID	Recovery	Sample ID and Interval	Well Completion	Well Description/ Comments
0		ASPHALT							Flush mounted well box installed
2		SILTY CLAY: grayish brown, well sorted, trace sand		CL					Cement grout from 0 to 2 feet bgs
4									Bentonite annular seal from 2 to 3 feet bgs
6		grayish brown, 60% clay, 40% silt, trace sand, well sorted, stiff, damp, moderately high plasticity, low estimated permeability, slight oxidation.			0		MW-2-5.5		2/12 sand filter pack from 3 to 19 feet bgs
8									
10		grayish brown, 80% clay, 20% silt, trace sand, well sorted, very stiff, damp, moderate plasticity, low estimated permeability.			0		MW-2-10		Screened interval (0.010" screen slot size) from 4 to 19 feet bgs
12									
14									
16		brown, 80% clay, 20% silt, well sorted, stiff, moist, moderate plasticity, low estimated permeability.			0				
18		light brown, 70% clay 30% silt, well sorted, stiff, wet, moderate plasticity, low estimated permeability.			0				

Inspector: <u>Jacobson</u>		Date of Inspection: <u>9/19/03</u>		Permit: <u>03600549</u>	
Well Owner: <u>ARCO</u>		Owner Well No.: <u>MW-4</u>		Well Registration No.: <u>06501W12H015</u>	
Address of Well Site: <u>43 S. Abbott Ave</u> (City or County: <u>MP</u> )					
Drilling Company: <u>Gregg</u>		Consultant: <u>URS</u>			
Cond. Bore:	Conductor Depth:	Conductor Diameter & Material:	TD: <u>19'</u>	Boring Diameter: <u>10"</u>	BOC: <u>19'</u>
Casing Diameter & Material: <u>4" PVC</u>	Slot Size: <u>01</u>	Screen Interval(s): <u>19'-4'</u>			
Filter Pack Material: <u>2X12 sand</u>	Filter Pack Interval(s): <u>19'-3'</u>	Bent: <u>3'-2'</u>	Seal Depth: <u>3</u>		
Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Other (See Comments)		Drilling Method: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Mud rotary <input type="checkbox"/> Other (See Comments) <input type="checkbox"/> Direct Push <input type="checkbox"/> Air Rotary			
Well Type: <input checked="" type="checkbox"/> GW Monitoring <input type="checkbox"/> GW Extraction <input type="checkbox"/> Vadose Monitoring <input type="checkbox"/> Vadose Extraction <input type="checkbox"/> Cathodic <input type="checkbox"/> Domestic <input type="checkbox"/> Agricultural <input type="checkbox"/> Municipal/Industrial <input type="checkbox"/> Elevator <input type="checkbox"/> Other (See Comments)					
Well constructed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
Well Location: <u>9.2 ft N of Valley Way</u>		<u>220 ft E of S. Abbott Ave</u>			
GPS Coordinates - Lat: <u>37 25 39.734 N</u>		Long: <u>121 54 52.107 W</u>			
Comments: <u>Joe Gonzales on site for URS</u>					

Distribution: ORIGINAL-Permit File; YELLOW-City/County; PINK-Well File; GOLDNENROD-Permittee

STATE OF CALIFORNIA  
**WELL COMPLETION REPORT**  
Refer to Instruction Pamphlet

Page 1 of 1

Owner's Well No. MW-4

Date Work Began 9/10/03, Ended 9/10/03 No. 791729

Local Permit Agency SCVWD

Permit No. 03W00549 Permit Date 8/22/03

DWR USE ONLY - DO NOT FILL IN

065101W12110115

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

**GEOLOGIC LOG**

ORIENTATION ( ) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE (SPECIFY)

DEPTH FROM SURFACE

FL. to FL.

DRILLING METHOD Hollow stem Auger FLUID none

DESCRIPTION

Describe material, grain size, color, etc.

0 19 Silty CLAY  
grayish brown, well sorted  
dense, trace sand  
color varies from grayish  
brown to light brown

SEP 24 2003

TOTAL DEPTH OF BORING 19 (Feet)

TOTAL DEPTH OF COMPLETED WELL 19 (Feet)

**WELL OWNER**

Name Atlantic Richfield Company

Mailing Address PO Box 6549

Merced CA 94570

CITY STATE ZIP

**WELL LOCATION**

Address 43 S Abbot Ave

City Milpitas

County Santa Clara

APN Book 022 Page 28 Parcel 011

Township Range Section

Latitude North Longitude WEST

DEG. MIN. SEC. DEG. MIN. SEC.

**LOCATION SKETCH**

NORTH

WEST EAST

ARID Svc Stn. canopy

MW-4

**ACTIVITY ( )**

☒ NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

**PLANNED USES ( )**

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING ☒

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY)

**WATER LEVEL & YIELD OF COMPLETED WELL**

DEPTH TO FIRST WATER 13 (FL) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL (FL) & DATE MEASURED

ESTIMATED YIELD (GPM) & TEST TYPE

TEST LENGTH (Hrs.) TOTAL DRAWDOWN (FL)

\* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					
		TYPE ( )				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)
FL. to FL.		BLANK	SCREEN	CON-DUCTOR	FILL PIPE		
0 4	10	X				PVC	4 sch 40
4 19	10	X				PVC	4 sch 40 0.010

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	TYPE			
FL. to FL.	CE-MENT ( )	BEN-TONITE ( )	FILL ( )	FILTER PACK (TYPE/SIZE)
0 2	X			
2 3		X		
3 19			X	#2/12

**ATTACHMENTS ( )**

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

**CERTIFICATION STATEMENT**

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Gregg Drilling

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

9501 Howe Road Martinez CA 94553

ADDRESS CITY STATE ZIP

Signed [Signature] for Gregg 9/22/03 485165

WELL DRILLER AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER



# 43 S. Abbott Ave.



APN: 02228011  
43 S Abbott Ave  
Milpitas CA  
95035

Well Annotations- 11 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	06S01W12H001	86W0255	A21217B	Other-Active	6151000	1981382
2	06S01W12H002	87W0641	M13	Other-Active	6150984	1981328
3	06S01W12H003	89D0257	M 8	Destroyed	6150984	1981322
4	06S01W12H004	96D01042	MW 9	Destroyed	6151000	1981393
5	06S01W12H006	96D01035	MW-1	Destroyed	6151122	1981311
6	06S01W12H007	96D01036	MW-2	Destroyed	6151084	1981417
7	06S01W12H008	96D01037	MW-3	Destroyed	6150980	1981351
8	06S01W12H009	96D01038	MW-4	Destroyed	6150984	1981312
9	06S01W12H010	96D01039	MW-5	Destroyed	6150997	1981275
10	06S01W12H013	03W00547	MW-2	Other-Active	6151096	1981351
11	06S01W12H019	04W00376	MW-6	Other-Active	6151079	1981373

- Wells.shp
- ⊕ Water Supply - Active
  - ⊞ Water Supply - Standby
  - Water Supply - Inactive
  - ⊕ Extraction (Env) - Active
  - Extraction (Env) - Inactive
  - ⊕ Other - Active
  - Other - Inactive
  - \* Abandoned
  - ⊕ Destroyed
  - ▲ Status Undetermined
- Parcels.shp
- VALFLOOR.SHP
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

Approximate Scale

30 0 30 60 Feet

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00639

Well Owner: Atlantic Richfield Company	Property Owner: Atlantic Richfield Company	Name of Business/Residence at Well Site: ARCO Service Station # 2121
Well Owner's Mailing Address: P.O. Box 6549	Property Owner's Mailing Address: P.O. Box 6549	Address of Well Site: 43 S. Abbott Ave
City, State, Zip: Moraga, CA 94570	City, State, Zip: Moraga, CA 94570	City, State, Zip: Milpitas, CA
Telephone No.: 925-299-8891	Telephone No.: 925-299-8891	Assessor's Parcel Number of Well Site: Book: 22 Page: 28 Parcel: 011
Consultant: URS Corporation	Drilling Company: Gregg Drilling	
Address: 1333 Broadway, Suite 800	Address: 950 Howe Road	
City, State, Zip: Oakland, CA 94612	City, State, Zip: Martinez, CA 94553	
Telephone No.: 510-874-3026 Attn: John McCain	Telephone No.: 925-313-5800	C-57 License No.: 485165
<input type="checkbox"/> Check if address or phone number has changed.	<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

## Well Information

Well Registration No.: 06501W12H018	Owner/Consultant Well No.: MW-5	Original Well Construction Permit No.: 04W00375
Well Casing Depth: 20'	Total Boring Depth: 20'	Well Casing Diameter: 2"

THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

<input type="checkbox"/> Well on SCVWD property/easement*	<input type="checkbox"/> Well is within 50 feet of the top of a creek/river bank*	(* See General Conditions, E.)
Well Description:		
<input checked="" type="checkbox"/> Vertical Well	<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Elevator Shaft
<input type="checkbox"/> Multiple Casing	<input type="checkbox"/> Horizontal Well	<input type="checkbox"/> Pit Well
Well Type: check all that apply		
<input type="checkbox"/> Water Producing (supply or extraction)	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal & Industrial	<input type="checkbox"/> Vapor Extraction
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Inclinator	<input checked="" type="checkbox"/> Groundwater
<input type="checkbox"/> Vadose	<input type="checkbox"/> Piezometer	<input type="checkbox"/> Interface
<input type="checkbox"/> Suction Lysimeter	<input type="checkbox"/> Seismic	
<input type="checkbox"/> Injection/Infiltration	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Reclaimed Water
<input type="checkbox"/> Air Sparging		
<input type="checkbox"/> Cathodic Protection		

## Additional Questions For Water Producing Wells

Does the well have:	1. Outer conductor casing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	2. Annular cement seal outside of casing at surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	3. A S.C.V.W.D. water meter attached?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Type of Original Drilling Method:			
<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable-Tool	<input type="checkbox"/> Hand Dug Pit Well	<input checked="" type="checkbox"/> Hollow Stem Auger
<input type="checkbox"/> Other:			

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

SEP - 8 2005

S.C.V.W.D.

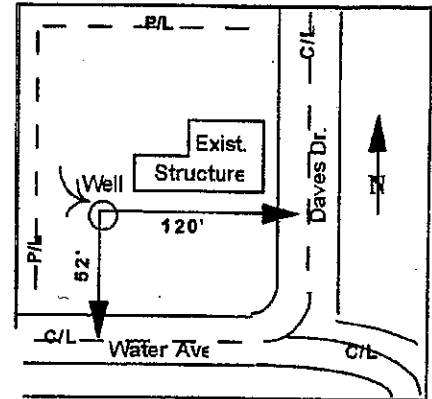
Site Plan

WELL LOCATION

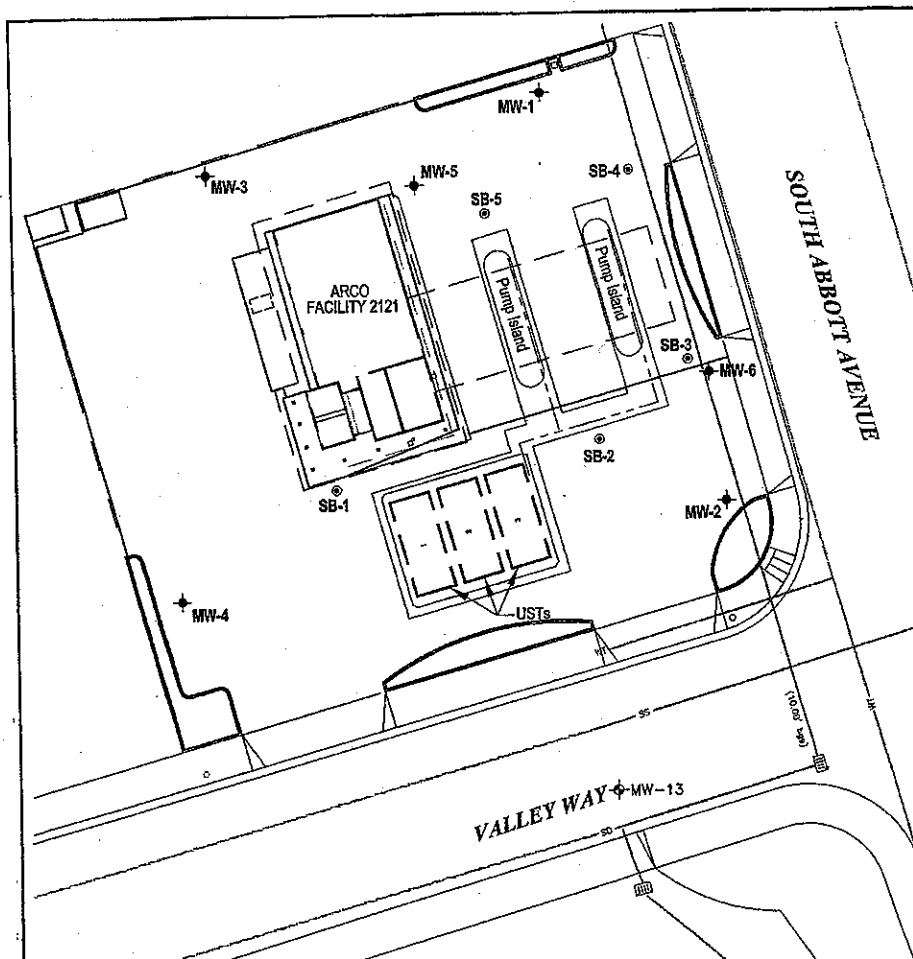
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



Sketch



EXPLANATION	
⊕	Soil boring
+	Monitoring well
⊕	BP monitoring well
⊕	Light pole
⊕	Storm drain inlet
⊕	Vault box
---	Product line piping
---	Storm drain
---	Sanitary sewer
---	Water line
---	Approximate limits of excavation

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL AND TAIT & ASSOCIATES FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS

Project No. 38486564  
ARCO Service Station #2121  
43 South Abbott Avenue  
Milpitas, California

MONITORING WELL /  
SOIL BORING LOCATION MAP

FIGURE  
2

Please allow 10 working days to process this application.





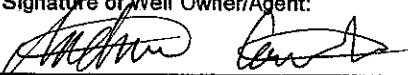

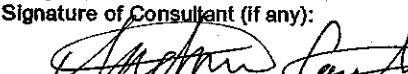
Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\*Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Andrew Fowler / URS for Atlantic Richfield Co	Date: 9/6/05
Signature of Driller/Agent: 	Print Name: Andrew Fowler / URS for Gregg Drilling	Date: 9/6/05
Signature of Consultant (if any): 	Print Name: Andrew Fowler URS	Date: 9/6/05

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).


NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of \_\_\_\_\_ feet, with a minimum bore of \_\_\_\_\_ inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00639	Date Issued: 9-23-05	Expiration Date: 3-23-06	Driller's Log No.: 030209

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number Indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.



1333 Broadway, Suite 800  
Oakland, California 94612

## MONITORING WELL LOG

Well ID: MW-5

Total Depth: 20 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project: ARCO #2121 Well Installations		Drilling Company: Woodward Drilling Co.	
Site Location: 43 South Abbott Avenue, Milpitas, CA		Driller: Scott Fitchie	
Site Number: 2121		Type of Drilling Rig: Moble B-57	
Project Manager: Lynelle Onishi		Drilling Method: 8"OD/4.25"ID HSA	
RG: Robert Horwath		Sampling Method: California Modified Split Spoon	
Geologist: Joe Gonzales		Date Started: 06/01/04	
Job/Cost Code Number:38486564.00949		Date Completed: 06/01/04	
WELL INFORMATION			
Groundwater Depth: 19 feet bgs		Well Location: Near NE corner of station building	
Top of Casing Elevation: NA		Well Diameter: 2 inches	
Coordinates: Latitude NA	Longitude NA	Screened Interval: From 5 to 20 feet bgs	

Elevation (ft msl)	Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Blow Counts	Recovery	Sample ID	Well Construction	Well Description/ Comments
0	0		Air knife to five feet below ground surface							
2	2									
4	4									
6	6		SILTY CLAY: very dark gray (10YR 3/1), 60% clay, 40% silt, stiff to very stiff, damp to moist, moderate to moderately low plasticity, trace rootlets	CL	46.1	5 10 18		MW-5-5.5		Flush mounted well box installed Cement grout from 0 to 3 feet bgs Bentonite annular seal from 3 to 4 feet bgs
8	8		dark grayish brown (10YR 4/2), same as above with slight increase in moisture and plasticity, not enough recovery for sample (approximately 2" of recovery)			8 13 23				Screened interval (0.010" screen slot size) from 5 to 20 feet bgs
10	10				20.1					Monterey #2/12 sand filter pack from 4 to 20 feet bgs
12	12									
14	14		dark yellowish brown (10YR 4/4), 70% clay, 30% silt, trace fine sand, stiff to very stiff, moist, moderate plasticity		37.4	8 10 15		MW-5-14.5		
16	16									Well casing is Schedule 40 PVC
18	18									
20	20		dark yellowish brown (10YR 4/4), 60% clay, 30% silt, 10% fine sand, medium stiff, wet to saturated, moderate plasticity		45.3	5 4 4		MW-5-19.5		Threaded well end cap

Inspector: <u>m. Clarke</u>		Date of Inspection: <u>6/1/04</u>		Permit: <u>04W00375</u>	
Well Owner: <u>ARCO</u>		Owner Well No.: <u>mb-5</u>		Well Registration No.: <u>06S01W12H018</u>	
Address of Well Site: <u>43 S. Agboat Ave</u>				City or County: <u>milpitas</u>	
Drilling Company: <u>Woodward Drilling</u>		Consultant: <u>URS Corp</u>			
Cond. Bore: <u>-</u>	Conductor Depth: <u>-</u>	Conductor Diameter & Material: <u>-</u>	TD: <u>20'</u>	Boring Diameter: <u>8"</u>	BOC: <u>20'</u>
Casing Diameter & Material: <u>2" PVC</u>	Slot Size: <u>.010</u>	Screen Interval(s): <u>20-5'</u>			
Filter Pack Material: <u>20/2 Sand</u>	Filter Pack Interval(s): <u>4'-20'</u>	Bent: <u>4'-3'</u>		Seal Depth: <u>4'</u>	
Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Other (See Comments)		Drilling Method: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Mud rotary <input type="checkbox"/> Other (See Comments) <input type="checkbox"/> Direct Push <input type="checkbox"/> Air Rotary			
Well Type: <input checked="" type="checkbox"/> GW Monitoring <input type="checkbox"/> GW Extraction <input type="checkbox"/> Vadose Monitoring <input type="checkbox"/> Vadose Extraction <input type="checkbox"/> Cathodic <input type="checkbox"/> Domestic <input type="checkbox"/> Agricultural <input type="checkbox"/> Municipal/Industrial <input type="checkbox"/> Elevator <input type="checkbox"/> Other (See Comments)					
Well constructed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
Well Location: <u>156 ft N S. Valley Way</u>			<u>107 ft E W. S Agboat Ave</u>		
GPS Coordinates - Lat: <u>37 25 40.878 N</u>			Long: <u>121 54 51.439 W</u>		
Comments: <u>4' Seal variance granted by Bill Cameron 6/1/04 (shallow groundwater)</u> <u>Well must be drilled out upon destruction</u>					
Distribution: ORIGINAL-Permit File; YELLOW-City/County; PINK-Well File; GOLDNENROD-Permittee					





Well Annotations- 11 Wells Selected

APN: 02228011  
43 S Abbott Ave  
Milpitas CA  
95035

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	06S01W12H001	86W0255	A21217B	Other-Active	6151000	1981382
2	06S01W12H002	87W0641	M13	Other-Active	6150984	1981328
3	06S01W12H003	89D0257	M 8	Destroyed	6150984	1981322
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5	06S01W12H006	96D01035	MW-1	Destroyed	6151122	1981311
6	06S01W12H007	96D01036	MW-2	Destroyed	6151084	1981417
7	06S01W12H008	96D01037	MW-3	Destroyed	6150980	1981351
8	06S01W12H009	96D01038	MW-4	Destroyed	6150984	1981312
9	06S01W12H010	96D01039	MW-5	Destroyed	6150997	1981275
10	06S01W12H013	03W00547	MW-2	Other-Active	6151096	1981351
11	06S01W12H019	04W00376	MW-6	Other-Active	6151079	1981373

- Wells.shp
- ⊕ Water Supply - Active
  - ⊞ Water Supply - Standby
  - Water Supply - Inactive
  - ⊕ Extraction (Env) - Active
  - Extraction (Env) - Inactive
  - ⊕ Other - Active
  - Other - Inactive
  - \* Abandoned
  - ⊕ Destroyed
  - ▲ Status Undetermined
- Parcels.shp
- Fuelleak.shp
- VALFLOOR.SHP
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

Approximate Scale

30 0 30 60 Feet

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00640

Well Owner: Atlantic Richfield Company	Property Owner: Atlantic Richfield Company	Name of Business/Residence at Well Site: ARCO Service Station # 2121
Well Owner's Mailing Address: P.O. Box 6549	Property Owner's Mailing Address: P.O. Box 6549	Address of Well Site: 43 S. Abbott Ave
City, State, Zip: Moraga, CA 94570	City, State, Zip: Moraga, CA 94570	City, State, Zip: Milpitas, CA
Telephone No.: 925-299-8891	Telephone No.: 925-299-8891	Assessor's Parcel Number of Well Site: Book: 22 Page: 28 Parcel: 011
Consultant: URS Corporation	Drilling Company: Gregg Drilling	
Address: 1333 Broadway, Suite 800	Address: 950 Howe Road	
City, State, Zip: Oakland, CA 94612	City, State, Zip: Martinez, CA 94553	
Telephone No.: 510-874-3026 Attn: John McCain	Telephone No.: 925-313-5800	C-57 License No.: 485165
<input type="checkbox"/> Check if address or phone number has changed.	<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

## Well Information

Well Registration No.: 06501W12H019	Owner/Consultant Well No.: MW-6	Original Well Construction Permit No.: 04W00376
Well Casing Depth: 20'	Total Boring Depth: 20'	Well Casing Diameter: 2"

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

<input type="checkbox"/> Well on SCVWD property/easement*	<input type="checkbox"/> Well is within 50 feet of the top of a creek/river bank*	(* See General Conditions, E.)
Well Description:		
<input checked="" type="checkbox"/> Vertical Well	<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Elevator Shaft
<input type="checkbox"/> Multiple Casing	<input type="checkbox"/> Horizontal Well	<input type="checkbox"/> Pit Well
Well Type: check all that apply		
<input type="checkbox"/> Water Producing (supply or extraction)	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal & Industrial	<input type="checkbox"/> Vapor Extraction
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Inclinometer	<input type="checkbox"/> Groundwater
<input type="checkbox"/> Vadose	<input type="checkbox"/> Piezometer	<input type="checkbox"/> Interface
<input type="checkbox"/> Suction Lysimeter	<input type="checkbox"/> Seismic	
<input type="checkbox"/> Injection/Infiltration	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Reclaimed Water
<input type="checkbox"/> Air Sparging		
<input type="checkbox"/> Cathodic Protection		

## Additional Questions For Water Producing Wells

Does the well have:	1. Outer conductor casing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	2. Annular cement seal outside of casing at surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	3. A S.C.V.W.D. water meter attached?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Type of Original Drilling Method:			
<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable-Tool	<input type="checkbox"/> Hand Dug Pit Well	<input checked="" type="checkbox"/> Hollow Stem Auger
<input type="checkbox"/> Other:			

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

SEP - 8 2005

SCVWD



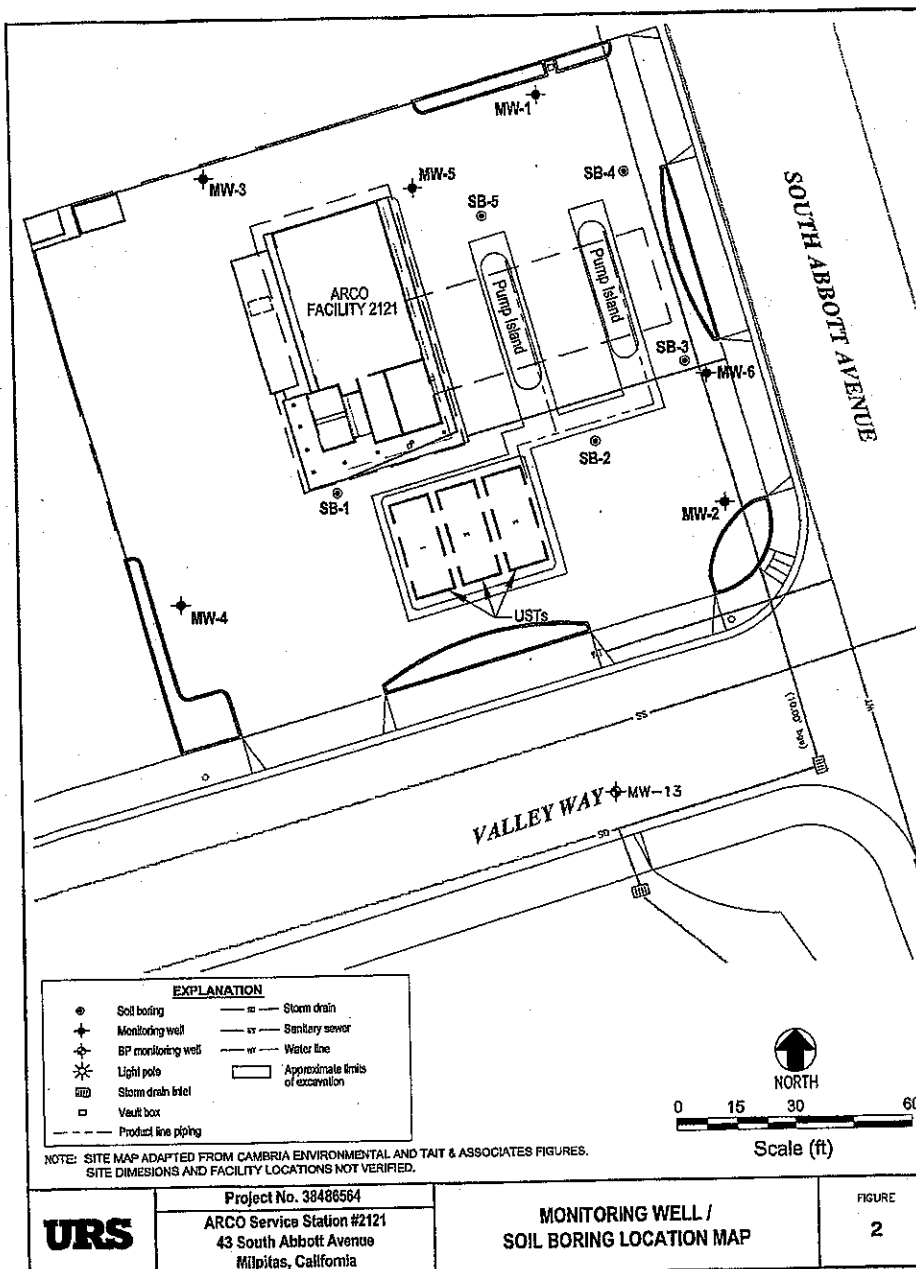
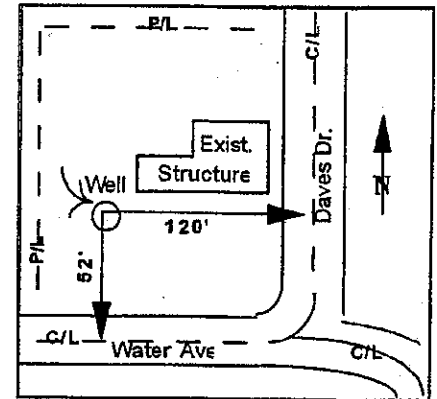
Site Plan

WELL LOCATION

(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



Please allow 10 working days to process this application.





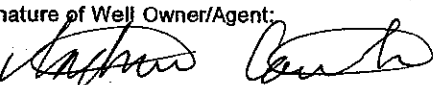
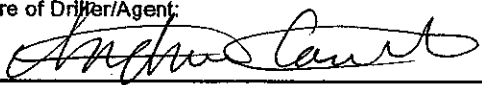
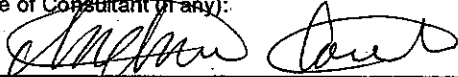
Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\*Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Andrew Fowler / URS for Atlantic Richfield Co	Date: 9/6/05
Signature of Driller/Agent: 	Print Name: Andrew Fowler / URS for Gregg Drilling	Date: 9/6/05
Signature of Consultant (if any): 	Print Name: Andrew Fowler URS	Date: 9/6/05

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).


NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 20 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00640	Date Issued: 9-23-05	Expiration Date: 3-23-06	Driller's Log No.: 030210

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.



1333 Broadway, Suite 800  
Oakland, California 94612

## MONITORING WELL LOG

Well ID: MW-6

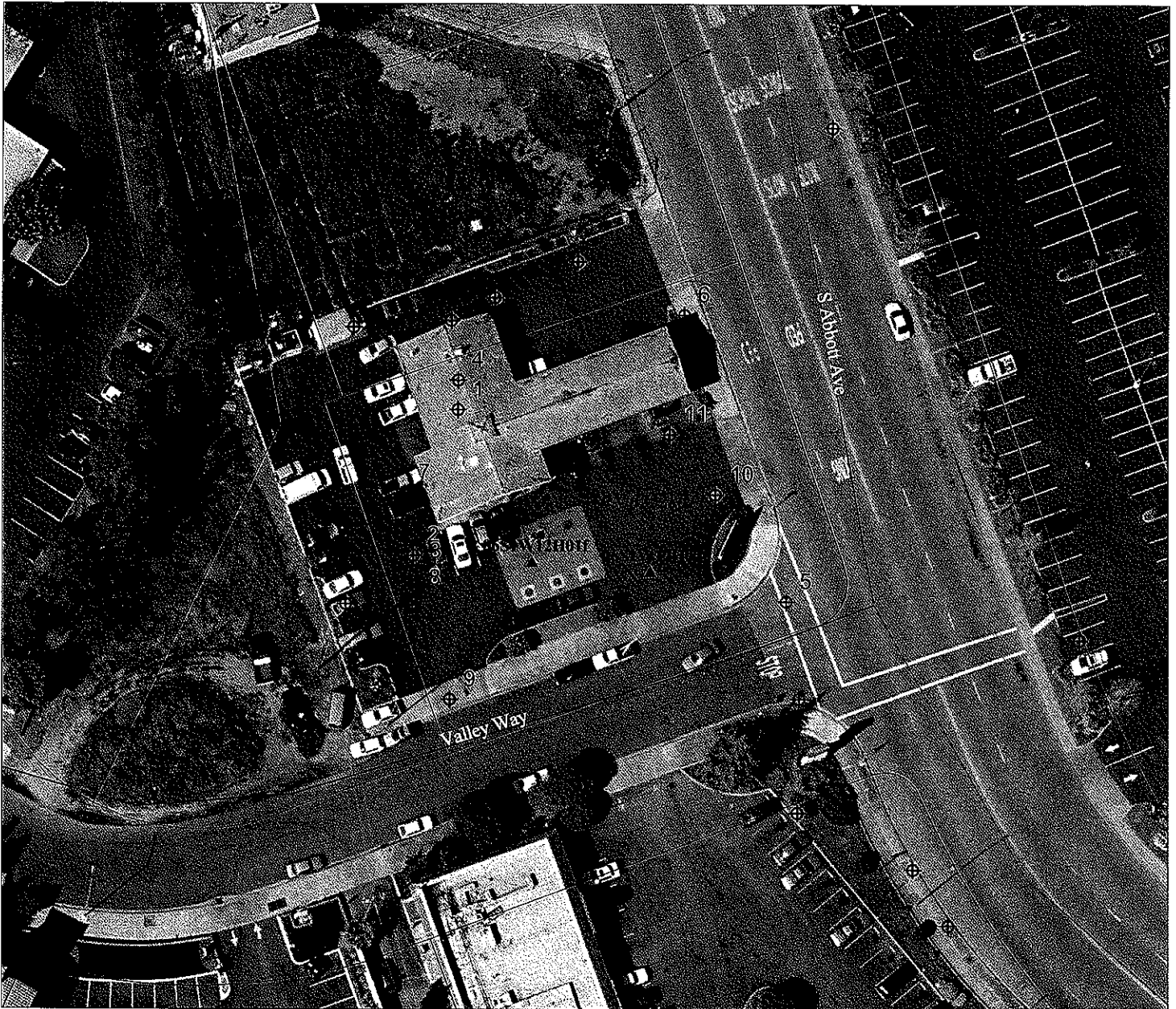
Total Depth: 20 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project:	ARCO #2121 Well Installations	Drilling Company:	Woodward Drilling Co.
Site Location:	43 South Abbott Avenue, Milpitas, CA	Driller:	Scott Fitchie
Site Number:	2121	Type of Drilling Rig:	Moble B-57
Project Manager:	Lynelle Onishi	Drilling Method:	8"OD/4.25"ID HSA
RG:	Robert Horwath	Sampling Method:	California Modified Split Spoon
Geologist:	Joe Gonzales	Date Started:	06/01/04
Job/Cost Code Number:	38486564.00949	Date Completed:	06/01/04
WELL INFORMATION			
Groundwater Depth:	18.5 feet bgs	Well Location:	Near SE corner of concrete pad
Top of Casing Elevation:	NA	Well Diameter:	2 inches
Coordinates:	Latitude NA Longitude NA	Screened Interval:	From 5 to 20 feet bgs

Elevation (ft msl)	Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Blow Counts	Recovery	Sample ID	Well Construction	Well Description/ Comments
0	0		Air knife to five feet below ground surface							Flush mounted well box installed
2	2									Cement grout from 0 to 3 feet bgs
4	4									Bentonite annular seal from 3 to 4 feet bgs
6	6		CLAYEY SILT: very dark gray (10YR 3/1), 60% silt, 40% clay, trace fine sand, very stiff, damp, moderately low plasticity, trace rootlets	ML	69	4 10 17		MW-6-5.5		Screened interval (0.010" screen slot size) from 5 to 20 feet bgs
8	8		SILTY CLAY: very dark gray (10YR 3/1), 60% clay, 40% silt, very stiff, damp, moderately low plasticity, trace rootlets	CL		7 13 19		MW-6-9.5		Monterey #2/12 sand filter pack from 4 to 20 feet bgs
10	10									
12	12									
14	14		olive brown (2.5YR 4/4), 70% clay, 30% silt, trace fine sand, medium stiff to stiff, moist, moderate plasticity			4 5 9		MW-6-14.5		Well casing is Schedule 40 PVC
16	16									
18	18									
20	20		SILTY SAND: yellowish brown (10YR 5/6), 80% fine to medium sand, 20% silt, medium dense, well sorted, wet to saturated, no plasticity	SM	28.7	3 6 8		MW-6-19.5		Threaded well end cap

Inspector: <u>m. Clarke</u>		Date of Inspection: <u>6/1/04</u>		Permit: <u>04W00376</u>	
Well Owner: <u>ARCO</u>		Owner Well No.: <u>mw-6</u>		Well Registration No.: <u>06S01W12H019</u>	
Address of Well Site: <u>435. Abbott Ave</u>				City or County: <u>milpitas</u>	
Drilling Company: <u>Woodward Drilling</u>		Consultant: <u>URS corp</u>			
Cond. Bore: <u>-</u>	Conductor Depth: <u>-</u>	Conductor Diameter & Material: <u>-</u>	TD: <u>20'</u>	Boring Diameter: <u>8"</u>	BOC: <u>20'</u>
Casing Diameter & Material: <u>2" PVC</u>	Slot Size: <u>010</u>	Screen Interval(s): <u>20'-5'</u>			
Filter Pack Material: <u>2X12 sand</u>	Filter Pack Interval(s): <u>4'-20'</u>	Bent: <u>4'-3'</u>		Seal Depth: <u>4'</u>	
Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Other (See Comments)		Drilling Method: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Mud rotary <input type="checkbox"/> Other (See Comments) <input type="checkbox"/> Direct Push <input type="checkbox"/> Air Rotary			
Well Type: <input checked="" type="checkbox"/> GW Monitoring <input type="checkbox"/> GW Extraction <input type="checkbox"/> Vadose Monitoring <input type="checkbox"/> Vadose Extraction <input type="checkbox"/> Cathodic <input type="checkbox"/> Domestic <input type="checkbox"/> Agricultural <input type="checkbox"/> Municipal/Industrial <input type="checkbox"/> Elevator <input type="checkbox"/> Other (See Comments)					
Well constructed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
Well Location: <u>84 ft. (N) S: Valley Way</u>			<u>51 ft. E / (W): S Abbott Ave</u>		
GPS Coordinates - Lat: <u>37 25 40.434 N</u>			Long: <u>121 54 50.465 W</u>		
Comments: <u>4' seal variance granted by Bill Cameron 6/1/04. (Shallow groundwater). Well must be drilled out upon destruction.</u>					
Distribution: ORIGINAL-Permit File; YELLOW-City/County; PINK-Well File; GOLDNENROD-Permittee					





APN: 02228011  
43 S Abbott Ave  
Milpitas CA  
95035

Well Annotations- 11 Wells Selected

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	06S01W12H001	86W0255	A21217B	Other-Active	6151000	1981382
2	06S01W12H002	87W0641	M13	Other-Active	6150984	1981328
3	06S01W12H003	89D0257	M 8	Destroyed	6150984	1981322
4	06S01W12H004	96D01042	MW 9	Destroyed	6151000	1981393
5	06S01W12H006	96D01035	MW-1	Destroyed	6151122	1981311
6	06S01W12H007	96D01036	MW-2	Destroyed	6151084	1981417
7	06S01W12H008	96D01037	MW-3	Destroyed	6150980	1981351
8	06S01W12H009	96D01038	MW-4	Destroyed	6150984	1981312
9	06S01W12H010	96D01039	MW-5	Destroyed	6150997	1981275
10	06S01W12H013	03W00547	MW-2	Other-Active	6151096	1981351
11	06S01W12H019	04W00376	MW-6	Other-Active	6151079	1981373

- Well.s.shp
- ⊕ Water Supply - Active
  - ⊞ Water Supply - Standby
  - Water Supply - Inactive
  - ⊕ Extraction (Env) - Active
  - Extraction (Env) - Inactive
  - ⊕ Other - Active
  - Other - Inactive
  - \* Abandoned
  - ⊕ Destroyed
  - ▲ Status Undetermined
- Parcels.shp
- FuelLeak.shp
- VALFLOOR.SHP
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

Approximate Scale

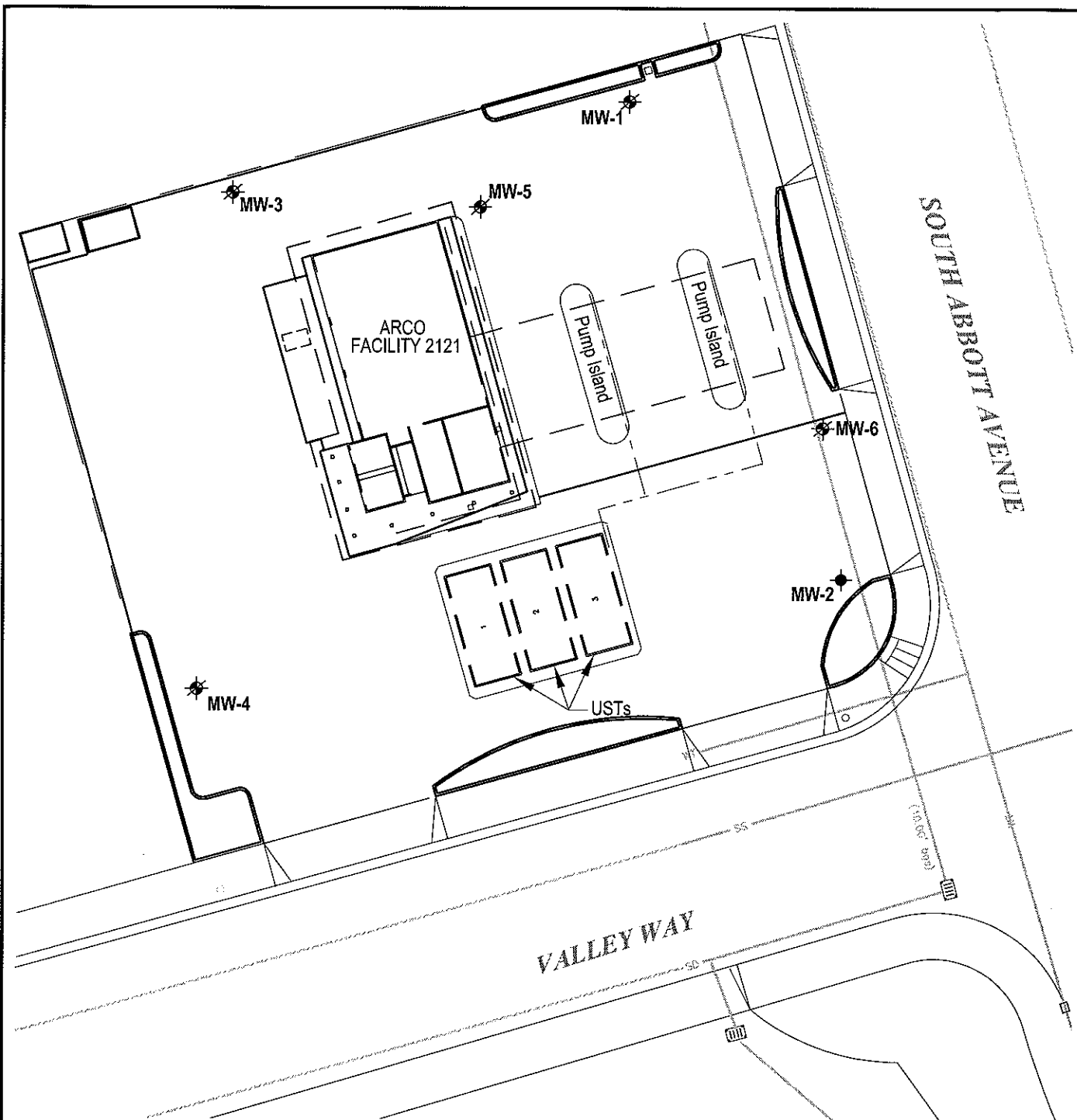
30 0 30 60 Feet

**Attachment B**

DWR Well Completion Reports

(Original copy submitted to the SCVWD Wells Division)

Dec 12, 2005 - 10:34am  
 X:\c\_env\waste\BP GEN\Sites\Lynelle Onishi - SCFWD ARCO Sites\Paul Supple\2121 - closed\Reports\Swi-3\Drawings\MW-SBLM\_12-9.dwg



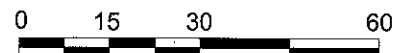
#### EXPLANATION

- |     |  |    |                |
|-----|--|----|----------------|
| ◆   | MW-2 to be re-assigned to BP#11223 (97 South Abbott Ave., Milpitas, Ca.) | SD | Storm drain    |
| ✱   | Destroyed monitoring well  | SS | Sanitary sewer |
| ⌬   | Storm drain inlet  | W  | Water line     |
| □   | Vault box  |    |                |
| --- | Product line piping  |    |                |

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL AND TAIT & ASSOCIATES FIGURES.  
 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



NORTH



Scale (ft)

**URS**

Project No. 38487378  
 ARCO Service Station #2121  
 43 South Abbott Avenue  
 Milpitas, California

**SITE MAP**

FIGURE

**1**



Permit No. 05D00636 Permit Date 9-23-05

No. e030205

DWR USE ONLY										DO NOT FILL IN									
06501012H012																			
STATE WELL NO./STATION NO.																			
LATITUDE										LONGITUDE									
APN/TRS/OTHER																			

GEOLOGIC LOG				WELL OWNER			
ORIENTATION ( )		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE (SPECIFY)		Name <u>Atlantic Richfield Co. (a BP affiliated company)</u>			
DRILLING METHOD <u>Pres. Grout</u>		FLUID		Mailing Address <u>PO Box 6549</u>			
DEPTH FROM SURFACE		DESCRIPTION		CITY <u>Moraga</u> STATE <u>CA</u> ZIP <u>94570</u>			
Fl. to Fl.		Describe material, grain size, color, etc.		WELL LOCATION			
0 to 20		Grout - Pressure applied for 5 mins. @ 25psi.		Address <u>43 South Abbott Ave.</u>			
				City <u>Milpitas, CA</u>			
				County <u>Santer Clara</u>			
				APN Book <u>22</u> Page <u>28</u> Parcel <u>011</u>			
				Township _____ Range _____ Section _____			
				Latitude _____ Longitude _____			
				DEG. MIN. SEC. NORTH WEST			
				DEG. MIN. SEC. WEST			
				LOCATION SKETCH			
				NORTH			
				See attached			
				WEST EAST			
				SOUTH			
				Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.			
				ACTIVITY ( )			
				<input type="checkbox"/> NEW WELL			
				MODIFICATION/REPAIR			
				<input type="checkbox"/> Deepen			
				<input type="checkbox"/> Other (Specify)			
				<input checked="" type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")			
				PLANNED USES ( )			
				WATER SUPPLY			
				<input type="checkbox"/> Domestic <input type="checkbox"/> Public			
				<input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial			
				MONITORING <input checked="" type="checkbox"/>			
				TEST WELL <input type="checkbox"/>			
				CATHODIC PROTECTION <input type="checkbox"/>			
				HEAT EXCHANGE <input type="checkbox"/>			
				DIRECT PUSH <input type="checkbox"/>			
				INJECTION <input type="checkbox"/>			
				VAPOR EXTRACTION <input type="checkbox"/>			
				SPARGING <input type="checkbox"/>			
				REMEDIATION <input type="checkbox"/>			
				OTHER (SPECIFY) _____			
				WATER LEVEL & YIELD OF COMPLETED WELL			
				DEPTH TO FIRST WATER _____ (Fl.) BELOW SURFACE			
				DEPTH OF STATIC			
				WATER LEVEL _____ (Fl.) & DATE MEASURED _____			
				ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____			
				TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Fl.)			
				* May not be representative of a well's long-term yield.			
TOTAL DEPTH OF BORING _____ (Feet)							
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)							

[illegible]

**ATTACHMENTS ( )**

☒ Geologic Log


☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☐ Other \_\_\_\_\_

**ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.**

CERTIFICATION STATEMENT			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.			
NAME	Shannon Caruth for Gregg Drilling		
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)			
950 Howe Rd.	Martinez CA 94553		
ADDRESS	CITY	STATE	ZIP
	11-28-05		485165
Signed	DATE SIGNED		
WELL DRILLER/AUTHORIZED REPRESENTATIVE	C-57 LICENSE NUMBER		



# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/21/05</b>		Permit: <b>05D00636</b>	
Owner/Consultant No: <b>MW-10</b>		Well Registration No: <b>06301W12 H012</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>43 S. Abbott</b>		City or County: <b>Milp</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>19.5</b>	Borehole Diameter: <b>10"</b>	Casing Diameter: <b>4"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry		
			<input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate					
<input type="checkbox"/> Ball, Perf. & Backfill <input type="checkbox"/> Ball & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)	
GPS Coordinates: Lat _____ Long _____					
Comments: _____					

Distribution: **ORIGINAL** Permit File; **YELLOW** City/County; **PINK** Well File; **GOLDENROD** Permittee



500 12th Street, Suite 200  
Oakland, California 94607

## MONITORING WELL LOG

Well ID: MW-1

Total Depth: 19.5 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project: ARCO #2121 Monitoring Well Installation		Drilling Company: Gregg Drilling	
Site Location: 43 South Abbott Ave, Milpitas, CA		Driller: Trevor Joyner	
Site Number: #2121		Type of Drilling Rig: Hollow Stem Auger	
Project Manager: Keith Woodburne		Drilling Method: 10" OD/6" ID HSA	
Geologist: Joe Gonzales		Sampling Method: California Split Spoon	
Job/Cost Code Number: 38486491.0L006		Date(s) Drilled: 9/5/03	
WELL INFORMATION			
Groundwater Depth (ft bgs): 11 feet bgs		Well Location: 35 feet north of pump islands	
Top of Casing Elevation (ft msl): NA		Well Diameter: 4 inches	
Coordinates: Latitude NA Longitude NA		Screened Interval: From 4.5 to 19.5	

Depth (ft)	Symbol	Lithologic Description	Blow Counts	USCS	PID	Recovery	Sample ID and Interval	Well Completion	Well Description/ Comments
0		ASPHALT: Cleared to 5 feet bgs							Flush mounted well box installed
2		SILTY CLAY: brownish gray, well sorted		CL					Cement grout from 0 to 2.5 feet bgs
4									Bentonite annular seal from 2.5 to 3.5 feet bgs
6		brownish gray, 80% clay, 20% silt, well sorted, stiff, damp, moderate plasticity, low estimated permeability, odor, silt increases with depth.	4 9 11		278		MW-1-6		2/12 sand filter pack from 3.5 to 19.5 feet bgs
8									
10		grayish brown, 70% clay, 30% silt, well sorted, stiff, damp, moderate plasticity, low estimated permeability, slight odor.	6 12 17		2.0		MW-1-10		Screened interval (0.010" screen slot size) from 4.5 to 19.5 feet bgs
12									
14									
16		brown, 70% clay, 30% silt, trace sand, well sorted, stiff, moist, moderate plasticity, low estimated permeability, slight odor.	5 6 7		0.4				
18									
20		brownish gray, 70% clay, 30% silt, trace sand, well sorted, stiff, wet, moderate plasticity, low estimated permeability, has small lenses of siltier material.	3 4 4		0				

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM



# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/21/05</b>		Permit: <b>05D00637</b>	
Owner/Consultant No: <b>MLW-3</b>		Well Registration No: <b>06501W12 H014</b>			
Well Owner: <b>Atlantic Richfield Co.</b>		Address of Well Site: <b>43 S. Abbott</b>		City or County: <b>Milp</b>	
Drilling Company: <b>Grezz</b>		Consultant: <b>LRS</b>			
Well Depth: <b>19</b>	Borehole Diameter: <b>10"</b>	Casing Diameter: <b>4"</b>	Casing Material: <b>PVC</b>	Wall Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments) <input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Casing Perforated: <b>0</b> to <b>0</b>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate <input type="checkbox"/> Ball Perf. & Backfill <input type="checkbox"/> Ball & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)	
GPS Coordinates: Lat _____ Long _____					
Comments:					

Distribution **ORIGINAL** Permit File **YELLOW** City/County **PINK** Well File **GOLDENROD** Permittee





500 12th Street, Suite 200  
Oakland, California 94607

## MONITORING WELL LOG

Well ID: MW-3

Total Depth: 19 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project:	ARCO #2121 Monitoring Well Installation	Drilling Company:	Gregg Drilling
Site Location:	43 South Abbott Ave, Milpitas, CA	Driller:	Don Kirsnis
Site Number:	#2121	Type of Drilling Rig:	Hollow Stem Auger
Project Manager:	Keith Woodburne	Drilling Method:	10" OD/6" ID HSA
Geologist:	Joe Gonzales	Sampling Method:	California Split Spoon
Job/Cost Code Number:	38486491.0L006	Date(s) Drilled:	9/5/03
WELL INFORMATION			
Groundwater Depth (ft bgs): 12 feet bgs		Well Location: 20 feet Northwest of station building	
Top of Casing Elevation (ft msl): NA		Well Diameter: 4 inches	
Coordinates: Latitude NA Longitude NA		Screened Interval: From 4 to 19 feet bgs	

Depth (ft)	Symbol	Lithologic Description	Blow Counts	USCS	PID	Recovery	Sample ID and Interval	Well Completion	Well Description/Comments
0		ASPHALT							Flush mounted well box installed
2		CLAYEY SILT: grayish brown, well sorted, trace sand		ML					Cement grout from 0 to 2 feet bgs
4									Bentonite annular seal from 2 to 3 feet bgs
6		grayish brown, 35% clay, 65% silt, trace sand, well sorted, stiff, damp, low plasticity, moderately low estimated permeability.	9 17 22		0		MW-2-5		2/12 sand filter pack from 3 to 19 feet bgs
8									
10		grayish brown, 40% clay, 65% silt, trace sand, well sorted, stiff, damp, low plasticity, moderately low estimated permeability.	7 9 11		0		MW-2-10		
12									
14		SILTY CLAY: brown, 75% clay, 25% silt, trace sand, well sorted, moderately stiff, wet, moderate plasticity, low estimated permeability.	6 7 9	CL	0				Screened interval (0.010" screen slot size) from 4 to 19 feet bgs
16									
18									
20		Same as above	26 17 13		0				





# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/21/05</b>		Permit: <b>05D00638</b>	
Owner/Consultant No: <b>MW-4</b>		Well Registration No: <b>06301W12H015</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>43 S. Abbott</b>		City or County: <b>Milp</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>19</b>	Borehole Diameter: <b>10"</b>	Casing Diameter: <b>4"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry	<input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate			<input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
<input type="checkbox"/> Ball Perf. & Backfill <input type="checkbox"/> Ball & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)	
GPS Coordinates Lat: Long:					
Comments					
Distribution: ORIGINAL Permit File: YELLOW City/County: PINK Well File: GOLDENROD Permittee:					





500 12th Street, Suite 200  
Oakland, California 94607

## MONITORING WELL LOG

Well ID: MW-4

Total Depth: 19 feet below ground surface

### PROJECT INFORMATION

### DRILLING INFORMATION

Project: ARCO #2121 Monitoring Well Installation

Drilling Company: Gregg Drilling

Site Location: 43 South Abbott Ave, Milpitas, CA

Driller: Bobby Deason

Site Number: #2121

Type of Drilling Rig: Rhino Rig

Project Manager: Keith Woodburne

Drilling Method: 10" OD/6" ID HSA

Geologist: Joe Gonzales

Sampling Method: California Split Spoon

Job/Cost Code Number: 38486491.0L006

Date(s) Drilled: 9/10/03

### WELL INFORMATION

Groundwater Depth (ft bgs): 13 feet bgs

Well Location: 55 feet east of tank pit

Top of Casing Elevation (ft msl): NA

Well Diameter: 4 inches

Coordinates: Latitude NA

Longitude NA

Screened Interval: From 4 to 19 feet bgs

Depth (ft)	Symbol	Lithologic Description	Blow Counts	USCS	PID	Recovery	Sample ID and Interval	Well Completion	Well Description/ Comments
0		ASPHALT							
2		SILTY CLAY: grayish brown, well sorted, trace sand		CL					Flush mounted well box installed
4									Cement grout from 0 to 2 feet bgs
6		grayish brown, 60% clay, 40% silt, trace sand, well sorted, stiff, damp, moderately high plasticity, low estimated permeability, slight oxidation.			0		MW-2-5.5		Bentonite annular seal from 2 to 3 feet bgs
8									2/12 sand filter pack from 3 to 19 feet bgs
10		grayish brown, 80% clay, 20% silt, trace sand, well sorted, very stiff, damp, moderate plasticity, low estimated permeability.			0		MW-2-10		Screened interval (0.010" screen slot size) from 4 to 19 feet bgs
12									
14									
16		brown, 80% clay, 20% silt, well sorted, stiff, moist, moderate plasticity, low estimated permeability.			0				
18		light brown, 70% clay 30% silt, well sorted, stiff, wet, moderate plasticity, low estimated permeability.			0				

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/21/05</b>		Permit: <b>05D00639</b>	
Owner/Consultant No: <b>MW-5</b>		Well Registration No: <b>06501W12H018</b>			
Well Owner: <b>Atlantic Richfield Co</b>		Address of Well Site: <b>43 S. Abbott Av</b>		City or County: <b>Milp</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>20</b>	Borehole Dia: <b>2 1/8"</b>	Casing Diameter: <b>PVC</b>	Casing Material: <b>2"</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments)	
Casing Perforated: <input checked="" type="checkbox"/> to <input checked="" type="checkbox"/>		Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)			
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate <input type="checkbox"/> Bail, Perf. & Backfill <input type="checkbox"/> Bail & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates Lat: Long:					
Comments:					
Distribution: ORIGINAL-Permit File YELLOW City/County PINK Well File GOLDENROD Permittee					



1333 Broadway, Suite 800  
Oakland, California 94612

## MONITORING WELL LOG

Well ID: MW-5

Total Depth: 20 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project:	ARCO #2121 Well Installations	Drilling Company:	Woodward Drilling Co.
Site Location:	43 South Abbott Avenue, Milpitas, CA	Driller:	Scott Fitchie
Site Number:	2121	Type of Drilling Rig:	Moble B-57
Project Manager:	Lynelle Onishi	Drilling Method:	8"OD/4.25"ID HSA
RG:	Robert Horwath	Sampling Method:	California Modified Split Spoon
Geologist:	Joe Gonzales	Date Started:	06/01/04
Job/Cost Code Number:	38486564.00949	Date Completed:	06/01/04
WELL INFORMATION			
Groundwater Depth:	19 feet bgs	Well Location:	Near NE corner of station building
Top of Casing Elevation:	NA	Well Diameter:	2 inches
Coordinates:	Latitude NA Longitude NA	Screened Interval:	From 5 to 20 feet bgs

Elevation (ft msl)	Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Blow Counts	Recovery	Sample ID	Well Construction	Well Description/ Comments
0	0		Air knife to five feet below ground surface							Flush mounted well box installed
2	2									Cement grout from 0 to 3 feet bgs
4	4									Bentonite annular seal from 3 to 4 feet bgs
6	6		SILTY CLAY: very dark gray (10YR 3/1), 60% clay, 40% silt, stiff to very stiff, damp to moist, moderate to moderately low plasticity, trace rootlets	CL	46.1	5 10 18		MW-5-5.5		Screened interval (0.010" screen slot size) from 5 to 20 feet bgs
8	8		dark grayish brown (10YR 4/2), same as above with slight increase in moisture and plasticity, not enough recovery for sample (approximately 2" of recovery)			8 13 23				Monterey #2/12 sand filter pack from 4 to 20 feet bgs
10	10				20.1					
12	12									
14	14		dark yellowish brown (10YR 4/4), 70% clay, 30% silt, trace fine sand, stiff to very stiff, moist, moderate plasticity			8 10 15		MW-5-14.5		Well casing is Schedule 40 PVC
16	16				37.4					
18	18									
20	20		dark yellowish brown (10YR 4/4), 60% clay, 30% silt, 10% fine sand, medium stiff, wet to saturated, moderate plasticity			5 4 4		MW-5-18.5		Threaded well end cap
					45.3					







# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector <b>Thiemann</b>		Date of Inspection <b>10/21/05</b>		Permit <b>05D00640</b>	
Owner/Consultant No. <b>MW-6</b>		Well Registration No. <b>06501W12H019</b>			
Well Owner <b>Atlantic Richfield Co</b>		Address of Well Site <b>43 S. Abbott Av</b>		City or County <b>Mil</b>	
Drilling Company <b>Gregg</b>		Consultant <b>URS</b>			
Well Depth <b>20</b>	Borehole Diameter <b>8"</b>	Casing Diameter <b>2"</b>	Casing Material <b>PVC</b>	Well Type <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments) <input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Casing Perforated <b>Ø</b> to <b>Ø</b>			Sealing Material <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
Destruction Method <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate <input type="checkbox"/> Ball Perf. & Backfill <input type="checkbox"/> Ball & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates Lat: Long:					
Comments					

Distribution: ORIGINAL Permit File; YELLOW City/County; PINK Well File; GOLDENROD Permittee



1333 Broadway, Suite 800  
Oakland, California 94612

## MONITORING WELL LOG

Well ID: MW-6

Total Depth: 20 feet below ground surface

PROJECT INFORMATION		DRILLING INFORMATION	
Project: ARCO #2121 Well Installations		Drilling Company: Woodward Drilling Co.	
Site Location: 43 South Abbott Avenue, Milpitas, CA		Driller: Scott Fitchie	
Site Number: 2121		Type of Drilling Rig: Mobile B-57	
Project Manager: Lynelle Onishi		Drilling Method: 8"OD/4.25"ID HSA	
RG: Robert Horwath		Sampling Method: California Modified Split Spoon	
Geologist: Joe Gonzales		Date Started: 06/01/04	
Job/Cost Code Number: 38486564.00949		Date Completed: 06/01/04	
WELL INFORMATION			
Groundwater Depth: 18.5 feet bgs		Well Location: Near SE corner of concrete pad	
Top of Casing Elevation: NA		Well Diameter: 2 inches	
Coordinates: Latitude NA Longitude NA		Screened Interval: From 5 to 20 feet bgs	

Elevation (ft msl)	Depth (ft bgs)	Symbol	Lithologic Description	USCS	PID (ppm)	Blow Counts	Recovery	Sample ID	Well Construction	Well Description/ Comments
0	0		Air knife to five feet below ground surface							Flush mounted well box installed
2	2									Cement grout from 0 to 3 feet bgs
4	4									Bentonite annular seal from 3 to 4 feet bgs
6	6		CLAYEY SILT: very dark gray (10YR 3/1), 60% silt, 40% clay, trace fine sand, very stiff, damp, moderately low plasticity, trace rootlets	ML	69	4 10 17		MW-6-5.5		Screened interval (0.010" screen slot size) from 5 to 20 feet bgs
8	8									
10	10		SILTY CLAY: very dark gray (10YR 3/1), 60% clay, 40% silt, very stiff, damp, moderately low plasticity, trace rootlets	CL		7 13 19		MW-6-8.5		Monterey #2/12 sand filter pack from 4 to 20 feet bgs
12	12									
14	14		olive brown (2.5YR 4/4), 70% clay, 30% silt, trace fine sand, medium stiff to stiff, moist, moderate plasticity		23	4 5 9		MW-6-14.5		Well casing is Schedule 40 PVC
16	16									
18	18									
20	20		SILTY SAND: yellowish brown (10YR 5/6), 80% fine to medium sand, 20% silt, medium dense, well sorted, wet to saturated, no plasticity	SM	28.7	3 6 8		MW-6-19.5		Threaded well end cap